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17	James Milstead, et al.,	Case No. 4:21-cv-06338-JST	
18	Plaintiffs,	SECOND AMENDED CLASS ACTION COMPLAINT	
19	v.	003/12 2/12/17	
20	GENERAL MOTORS LLC, et al.,	JURY TRIAL DEMANDED	
21	Defendant.		
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Plaintiffs, individually and on behalf of all others similarly situated (the "Class"), allege the following against General Motors LLC, General Motors Holdings LLC, and General Motors Company (collectively, "Defendants," "GM," or "New GM") based, where applicable, on personal knowledge, information and belief, and the investigation of counsel and their experts.

Plaintiffs file this complaint pursuant to the Court's Order granting leave (Dkt. 177 at 25), and attach hereto as Exhibit E a redline comparison between this complaint and the previous pleading for the Court's reference.

I. **INTRODUCTION**

- 1. This case involves a dangerous defect that compromises critical safety systems in millions of GM trucks and SUVs. When working properly, during a frontal crash of sufficient severity, a vehicle's seatbelts should tighten to hold the vehicle occupants in place, and the airbags should inflate to protect them from hard impacts. A defect in the Class Vehicles, however, can prevent seatbelt tightening and airbag deployment during certain types of crashes, leaving vehicle occupants without protection exactly when they need it most.¹
- 2. The defect is contained in the software that governs the Class Vehicles' airbag control unit. This unit, also known as the Sending and Diagnostic Module ("SDM"), is a small computer connected to sensors placed throughout a vehicle. These sensors monitor vehicle performance and tell the SDM when they detect irregular behavior.
- 3. Based on the signals it receives from these sensors, the SDM *should* fire the airbags and tighten seatbelts when needed in a crash of sufficient severity. But in the Class Vehicles, the software program that controls the SDM is calibrated in such a way that it prevents airbag and seatbelt deployment just 45 milliseconds after a crash has begun. This has serious repercussions in real-world accidents that need seatbelt and airbag deployment after 45 milliseconds—such as accidents that involve multiple impacts, or that start and then increase in severity over time, before the SDM has reset—in which the airbags and seatbelts in the Class

¹ The "Class Vehicles" include all vehicles in the United States that contain the SDM Calibration Defect that were (1) manufactured, sold, distributed, or leased by Defendants or (2) manufactured, sold, distributed, or leased by General Motors Corporation ("Old GM") and purchased or leased by Plaintiffs or a Class member after July 10, 2009.

Vehicles can fail. Put simply, GM decided to install a calibration that can and does prematurely close the time window to engage airbags and seatbelts in a crash, putting occupants of the Class Vehicles in serious danger.

- 4. Old GM knew about the effect of this calibration and related dangers from the very outset, when it decided to prematurely close the time window for airbag deployment in the Class Vehicles in the late 1990s.² In the process, Old GM overrode serious concerns from a team from Delco Electronics (later called Delphi Electronics, now known as Aptiv), including engineering manager, Chris Caruso. Mr. Caruso and a team of software engineers from Delco—which designed the base SDM software program used in the Class Vehicles and other GM vehicles—expressly warned Old GM in or about 1999 that preventing airbag and seatbelt deployment after 45 milliseconds was a reckless and dangerous design decision.
- 5. Old GM's trucks group, which was in charge of the design and development for all GM trucks and SUVs, ignored this warning and insisted on using its defective SDM calibration strategy to shut off the ability to deploy airbags and seatbelts after 45 milliseconds (the "SDM Calibration Defect"). Given their significant concerns, Mr. Caruso and the Delco team insisted that Old GM sign a disclaimer of Delco's liability for the modified algorithm as used in GM trucks and SUVs.
- 6. Tellingly, a separate team in charge of the design and development for GM cars rejected GM Trucks' approach after hearing the Delco team's concerns. GM cars included a much longer window (at least two to three times longer than GM Trucks, approximately 100-150 milliseconds) for the airbags and seatbelts to deploy in a crash for the vehicles they designed. GM Trucks also ignored the cars group's views. On information and belief, starting in or about 1999, GM (and Old GM before it) installed the defective SDM calibration in all of the Class Vehicles, at least through model year 2018.
- 7. When General Motors, LLC ("GM LLC") was formed in 2009, it acquired books, records, and personnel from Old GM that reflected this reckless decision to use the dangerous

² As detailed further below, Old GM filed for bankruptcy in 2009, which led to the creation of the contemporary GM entities named as Defendants herein.

SDM calibration in GM trucks and SUVs. Despite this acquired knowledge, GM continued to use Delco SDMs in its vehicles and, on information and belief, continued to use the defective software calibration associated with those Delco SDMs as well.

- 8. Since it was formed in 2009, GM has gained still more knowledge of the defect through personal injury lawsuits, consumer complaints, and its own investigations into serious crashes where the airbags and seatbelts failed in the Class Vehicles. As an example, documents in a personal injury lawsuit filed against GM LLC in 2011 describe the SDM Calibration Defect in detail and relate Old GM's reckless decision to use it. *See* § IV.C.3.a, infra. Chris Caruso, the engineer who originally objected to the defective algorithm in the first instance, has gone on to serve as an expert in a number of these cases.
- 9. While the use of the defective shutoff strategy began some twenty years ago, it remains a real and immediate risk to Plaintiffs and Class members today. Indeed, GM settled yet another personal injury lawsuit about this SDM calibration defect *just last month*, in December 2022. Discovery in that case revealed the defect was included in a model year 2018 GM SUV. This is direct evidence that GM Trucks continued to use the defective strategy in its vehicles for many years (decades) after its introduction in approximately 1999. *See* § IV.C.3.a, infra.
- 10. Finally, publicly available consumer complaints to the National Highway Traffic and Safety Administration ("NHTSA") detail more than *eight hundred* instances where the airbags and/or seatbelts suspiciously failed in the Class Vehicles during frontal crashes. Many of these reports specifically state that GM knew about and investigated the crash after the reported airbag failures. A separate NHTSA dataset indicates that, from 1999 to 2021, at least 1,298 people were killed or injured in a frontal collision in which the airbags did not deploy in one of these vehicles. *See* IV.C.3.b, infra.
- 11. Despite its knowledge of the defect and its impact on safety, GM has concealed the defect and failed to recall or repair the Class Vehicles, and has thereby avoided the significant costs, inconveniences, and reputational harms of recalling millions of trucks and SUVs. GM has hidden the Defect despite its obligation to disclose it, misrepresented the Class Vehicles to be safe, and continued to sell them to consumers.

12. Because of GM's failure to disclose the truth, consumers continue to purchase and drive Class Vehicles with the SDM Calibration Defect every day—on road trips, commutes, and weekend errands alike—unaware that their airbags and seatbelts may not work in certain serious crashes when they need them. This lawsuit seeks redress from GM for the damages incurred when Plaintiffs and proposed Class members paid for vehicles with a safety system that may fail them in life-threatening collisions.

II. PARTIES

A. Plaintiffs

- 13. Plaintiff James Milstead ("Plaintiff" for the purposes of this paragraph) is an individual residing in Oxnard, CA. On September 11, 2021, Plaintiff purchased a 2012 Avalanche (for purposes of Plaintiff's allegations, the "Class Vehicle") from Escondido Auto Super Center in Escondido, CA. On information and belief for the reasons set forth herein, GM installed the SDM calibration defect—which shut off the vehicle's ability to deploy airbags in a crash after 45 milliseconds—in Mr. Milstead's truck during the manufacturing process, and Mr. Milstead's truck contained the SDM calibration defect at the time he purchased the vehicle. At the time of purchase, Plaintiff reasonably expected that the airbags and seatbelts would function in the event of a crash and had no way of knowing that it contained a dangerous and defective SDM calibration that could cause the airbags and seatbelts to fail during a crash. To the contrary, before acquiring the vehicle, Plaintiff viewed or heard commercials and reviews through television, radio, and the internet that touted the safety and reliability of Plaintiff's vehicle and GM vehicles generally. GM concealed the existence of the defective SDM calibration from consumers including Plaintiff. Plaintiff would not have purchased the Class Vehicle, or would have paid less for it, if Defendants did not conceal material information about the defective SDM calibration.
- 14. Plaintiff Arthur Ray ("Plaintiff" for the purposes of this paragraph) is an individual residing in Brentwood, California. In or around January 22, 2010, Plaintiff purchased a new 2010 GMC Sierra 2500 (for purposes of Plaintiff's allegations, the "Class Vehicle") from Concord GMC, an authorized dealership located in Concord, California. On information and belief for the reasons set forth herein, GM installed the SDM Calibration Defect—which shut off the vehicle's

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ability to deploy airbags in a crash after 45 milliseconds—in Mr. Ray's truck during the manufacturing process, and Mr. Ray's truck contained the SDM Calibration Defect at the time he purchased the vehicle. At the time of purchase, Plaintiff reasonably expected that the vehicle's airbags and seatbelts would function in the event of a crash and had no way of knowing that it contained a dangerous and defective SDM calibration that could cause the airbags and seatbelts to fail during a crash. To the contrary, before acquiring the Vehicle, Plaintiff viewed or heard commercials and reviews through television and the internet that touted the safety and reliability of Plaintiff's vehicle, including its "Five Star" safety rating, and GM vehicles generally. GM concealed the existence of the defective SDM calibration from consumers including Plaintiff. Plaintiff would not have purchased the Class Vehicle, or would have paid less for it, if Defendants did not conceal material information about the defective SDM calibration.

15. Plaintiff Richard Vargas ("Plaintiff" for the purposes of this paragraph) is an individual residing in Menifee, California. In or around December 2012, Plaintiff purchased a new 2012 Chevrolet Suburban (for purposes of Plaintiff's allegations, the "Class Vehicle") from El Camino Real Chevrolet dealership located in Monterey Park, California. On information and belief for the reasons set forth herein, GM installed the SDM Calibration Defect—which shut off the vehicle's ability to deploy airbags in a crash after 45 milliseconds—in Mr. Vargas' SUV during the manufacturing process, and Mr. Vargas' SUV contained the SDM Calibration Defect at the time he purchased the vehicle. At the time of purchase, Plaintiff reasonably expected that the Vehicles' airbags and seatbelts would function in the event of a crash and had no way of knowing that it contained a dangerous and defective SDM calibration that could cause the airbags and seatbelts to fail during a crash. To the contrary, before acquiring the Vehicle, Plaintiff viewed or heard commercials and reviews through television, radio, and the internet that touted the safety and reliability of Plaintiff's vehicle, including its "Five Star" safety rating, and GM vehicles generally. Additionally, when at the dealership before making his purchase, Plaintiff inquired about the airbags in the Class Vehicle. GM concealed the existence of the defective SDM calibration from consumers including Plaintiff. Plaintiff would not have purchased the Class

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Vehicle, or would have paid less for it, if Defendants did not conceal material information about the defective SDM calibration.

B. Defendants

- 16. General Motors LLC ("GM LLC") is a Delaware limited liability company with its principal place of business located at 300 Renaissance Center, Detroit, Michigan, and is a citizen of the States of Delaware and Michigan. The sole member and owner of GM LLC is General Motors Holdings LLC.
- 17. General Motors Holdings LLC ("GM Holdings") is a Delaware limited liability company with its principal place of business in Detroit, Michigan, and is a citizen of the States of Delaware and Michigan. The sole member and owner of GM Holdings is General Motors Company.
- 18. General Motors Company ("GM Parent") is a Delaware corporation with its principal place of business in Detroit, Michigan, and is a citizen of the States of Delaware and Michigan. GM Parent's only asset is its 100% ownership interest in GM Holdings. In public SEC filings, GM Parent states: "We design, build and sell cars, trucks, crossovers and automobile parts worldwide." GM Parent sells vehicles throughout the United States "through [its] dealer network to retail customers." As further noted in SEC filings, GM Parent is also responsible for making reports to NHTSA related to vehicle safety and making determinations as to vehicle recalls.³
- 19. Each of GM LLC, GM Holdings, and GM Parent operates out of GM's Global Headquarters in Detroit, Michigan.
- 20. In June 2009, Old GM filed for bankruptcy. Defendants were then created on or about July 10, 2009, in connection with the sale of substantially all of Old GM's assets pursuant to a Master Sale and Purchase Agreement. As a result of the sale, GM LLC acquired substantially all of Old GM's books, records, and personnel. GM LLC then transferred some of these assets to GM Holdings (formed shortly after the bankruptcy sale). Defendants thereby acquired from Old GM the knowledge about the SDM Calibration Defect (defined below) that those books, records,

³ See General Motors Company's Form 10-K for fiscal year 2019.

and personnel held. GM Parent and GM LLC also took responsibility for any necessary recalls of Old GM vehicles going forward.

21. The causes of action in this Complaint are directed to GM Parent, GM Holdings, and GM LLC and are based on their misconduct.

III. <u>JURISDICTION, VENUE, AND INTRADISTRICT ASSIGNMENT</u>

- 22. This Court has original jurisdiction over this action pursuant to the Class Action Fairness Act ("CAFA"), 28 U.S.C. § 1332(d), because at least one Class member is of diverse citizenship from one Defendant, there are more than 100 Class members, and the aggregate amount in controversy exceeds \$5 million, exclusive of interest and costs.
- 23. This Court has personal jurisdiction over Defendants under California Code of Civil Procedure section 410.10.
- 24. Venue is proper in this District under 28 U.S.C. § 1391, and assignment is proper to this division under N.D. Cal. L.R. 3-2, because a substantial part of the events or omissions which give rise to the claims occurred in this District, and because Defendants have caused harm to Class members residing in this District, including Plaintiff Ray. GM conducts substantial business, including through numerous dealerships, and marketed, advertised, sold, and leased Class Vehicle in this District.

IV. GENERAL FACTUAL ALLEGATIONS

- A. SDMs are supposed to detect crashes and control airbags and seatbelts.
- 25. Car crashes kill or seriously injure hundreds of thousands of people every year. Because of this risk, the federal government requires automobile manufacturers to include critical safety features—seatbelts and airbags—in all vehicles sold in the United States. This life-saving equipment has been mandatory in passenger vehicles since 1997. *See* 49 U.S.C. § 30127.
- 26. These features include seatbelt pretensioners, which tighten seatbelts to secure the occupants, and airbags, which are cushions that rapidly inflate from the steering wheel and other areas of the vehicle. During an accident, seatbelt pretensioners hold vehicle occupants in place, and airbags buffer or prevent impact between occupants and hard structures in the vehicle.

can and has caused serious injuries and death.

frontal airbags deployed during a crash.⁵

Without the airbags, slamming into the hard structures (such as the steering wheel) during a crash

effective in reducing the safety risk in automobile collisions. NHTSA reports that the use of

vehicle without airbags.⁴ From 1987 to 2017, an estimated 50,457 lives were saved because

not meant to deploy with every impact. A crash may be of lower intensity (e.g., a low-speed

fender bender in a parking lot) such that the seatbelt alone will be sufficient protection for the

occupant. Airbags are designed to deploy in "moderate to severe" frontal or near-frontal crashes.

A "moderate to severe" frontal crash is the equivalent of hitting a solid, fixed barrier at 8-14 miles

they are needed, they are supposed to operate automatically (meaning, the driver does not need to

hit a button to deploy the airbag). They use sophisticated hardware components and software to

as an Electronic Control Unit or "ECU"). GM refers to this component as the "Sensing and

Diagnostic Module" or "SDM," and that term is used throughout this Complaint. SDMs are

to issue a "command" to deploy airbags and tighten seatbelts to prevent or mitigate injury to

effectively computers that control the car's safety systems. They are intended, where appropriate,

activate and deploy the seatbelts and airbags systems automatically.

seatbelts and airbags reduces fatality risk by 61 percent compared to an unbelted occupant in a

When functioning properly, the combination of seatbelts and airbags is highly

Although airbags work effectively to protect occupants when necessary, they are

Seatbelt and airbag systems are known as "passive" safety systems because, when

The "brain" behind this operation is the airbag control unit or "ACU" (also known

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per hour or higher.⁷

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⁴ U.S. Department of Transportation, NHTSA, Fatalities in Frontal Crashes Despite Seat Belts and Airbags, NHTSA Technical Report No. DOT HS 811 202 (September 2009). ⁵ NHTSA, Air Bags Overview. Available at: https://www.nhtsa.gov/equipment/air-bags (last

visited January 26, 2023).

⁶ Dr. Ching-Yao Chan, Fundamentals of Crash Sensing in Automotive Airbag Systems. Copyright Society of Automotive Engineers, (2000), at p. 50. ⁷ Air Bags Overview, *supra* note 5.

vehicle occupants in a crash.

31. The SDM operates in three basic phases:

- a. *First*, during regular vehicle operation, the SDM sits in a resting or "normal" mode. In this mode, the SDM constantly receives signals from sensors placed throughout the vehicle, which collect and report information on inputs such as acceleration, wheel speed, brake pressure, and impacts.⁸ The SDM monitors and interprets these signals to determine whether the vehicle is involved (or about to be involved) in a crash.
- b. *Second*, while monitoring these signals in "normal" mode, if and when the SDM detects an irregular input that suggests a potential crash, it "wakes up" to search for further confirmation of a crash (as opposed to, for example, an irregular input from slamming on the brakes and then avoiding a collision). In this second stage—known as "wake up" or "standby" mode—the SDM's crash-sensing software algorithm is engaged to quickly decipher crash status and respond.⁹ After "wake up" mode is triggered by an irregular input, if additional inputs confirm a moderate to severe frontal crash, the SDM *should* issue a command to "fire" the airbag and/or tighten the seatbelts as needed.¹⁰
- c. *Third*, the final phase in this sequence is the "reset" phase. From "wake up" mode, after it detects that a crash or a potential crash has fully completed, (i.e., that the vehicle has returned to normal operation after an irregular input) the SDM ultimately returns to its normal operating state through "resetting."
- 32. A vehicle striking a pothole illustrates this three-phase sequence. The vehicle first operates with the SDM in "normal" mode as it drives down the road. Then, suddenly, the driver hits an unseen pothole. This jolt from hitting the pothole (and/or related inputs like deceleration) will trigger the SDM to enter "wake up" mode where it searches for more inputs. Awake, the

⁸ Clemson University Vehicular Electronics Laboratory, "Airbag Deployment Systems." Available at: https://cecas.clemson.edu/cvel/auto/systems/airbag_deployment.html (last visited

January 26, 2023).

⁹ John Pearley Huffman, "The Physics of Airbags," *Car & Driver*, June 14, 2011. Available at: https://www.caranddriver.com/features/a15121591/the-physics-of-airbags-feature (last visited January 26, 2023).

¹⁰ Jesse Kendall, P.E., and Kenneth Solomon, Ph.D., "Airbag Deployment Criteria" at p. 11. Available at: https://www.experts.com/content/articles/Kenneth-Solomon-Airbag-Paper.pdf (last visited January 26, 2023).

SDM quickly asks: "How fast is the vehicle slowing down? Is the front bumper crushed? Is the vehicle speeding back up normally?" and reacting in turn.¹¹

- 33. If the SDM senses that the vehicle returns to normal operation and continues down the road, it will stop looking for confirmation of a crash and reset to normal operation. On the other hand, if, after it hits the pothole, the vehicle veers out of its lane and crashes into another vehicle head on, the SDM should detect this second input and fire the airbag.¹²
- 34. This entire sequence—from sensing an irregular signal (the pothole), to waking up and searching for confirmation of a crash, to firing the airbag where needed—might take only fractions of a second. Indeed, a typical "crash duration" in a frontal, vehicle-to-barrier collision lasts for approximately 80-150 milliseconds (0.08-0.15 seconds). For that reason, timing this sequence properly is critically important to ensure that the seatbelts are tightened, and the airbags deploy, to protect the occupants when they need to.

B. GM used a dangerous and defective SDM software calibration in its trucks and SUVs.

- 35. Throughout the three-phase sequence described above, SDMs rely on software algorithms to interpret signals, estimate crash dynamics, and issue a "deploy" or "do not deploy" command to the safety systems. For the SDM to function as intended, the software that controls it must be designed to recognize and respond to real-world crashes so that the airbags inflate and seatbelts tighten when they are needed.
- 36. Crash sensing occurs in "real-time." This means that the sensing algorithm can only examine a limited window of data to predict and judge the severity of crash events before conclusion, so that the airbags can deploy and protect the occupant on impact. ¹⁴ A decision to "deploy" the airbags should occur when certain pre-set thresholds that tell the SDM a crash is severe enough (i.e., a moderate to severe frontal collision) are met or exceeded. These deployment thresholds are programmed into the SDM software through a process in which engineers "calibrate" the software algorithm in the vehicle.

Solomon, *supra* note 10, at p. 11.

¹² *Id*. at p. 8.

¹³ Chan, *supra* note 6, at p. 169.

¹⁴ Chan, *supra* note 6, at p. 95.

SDM detects accidents and deploys the safety systems contains a serious defect (the "SDM

Calibration Defect"). Specifically, for frontal crashes, GM calibrated the SDM to prevent

mode. 15 GM did this by increasing the deployment thresholds to unattainable values 45

deployment of airbags and pretensioners more than 45 milliseconds after it enters "wake up"

milliseconds into the crash sequence. With this calibration in place, no matter how severe the

inputs the SDM received immediately after 45 milliseconds, the airbags and pretensioners will

In the Class Vehicles, the software calibration that controls how and when the

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not deploy until a reset has occurred.

- 38. This defective calibration was no accident; rather, as detailed below, GM included it by design when it modified the SDM software program (originally known as ALGO-S) in the Class Vehicles to include it.
- 39. In affirmatively blocking these critical safety features after 45 milliseconds, GM greatly and needlessly increased the risk of injury and death in a variety of frontal crashes. Specifically, the SDM Calibration Defect manifests in frontal crashes that require airbag deployment or seatbelt tightening after 45 milliseconds into the crash, and before the SDM resets.
- 40. For example, this includes frontal crashes with multiple, distinct points of impact known as "concatenated" events. A vehicle that first hits a curb and then veers and hits a tree, or first hits a speed bump and then crashes into the vehicle in front of it, are examples of concatenated crashes. By their nature, concatenated accidents involve multiple discrete inputs for the SDM to detect during a crash sequence.
- 41. In concatenated crashes, the first part of the incident (hitting a curb) sends the SDM into its "wake up" or "stand by" mode. The initial curb hit does not trigger the airbag or tighten the seatbelt, but the SDM "wakes up" to confirm whether further irregular signals will follow and indicate a need for the seatbelts or airbags. In the Class Vehicles—because of the software calibration that controls the SDM—the "wake up" mode lasts for just 45 milliseconds

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¹⁵ At this early stage, Plaintiffs note that the interpretation of time recorded by the SDM software and in related Crash Data Reports is complex. The 45-millisecond timing described in this complaint refers to the value as calculated in the software, as opposed to 45 milliseconds in linear time.

after the first irregular signal. After that time, and by GM's design, the deployment thresholds in the software drastically increase, such that no further input, no matter how severe, could exceed the thresholds and trigger the airbags to deploy and/or seatbelts to tighten. As detailed in this section, the triggering thresholds are pre-set inputs in the software that tell the SDM that a crash is severe enough to deploy an airbag.

- 42. In addition to concatenated crashes, the SDM Calibration Defect is also implicated in frontal crashes that increase in severity and require airbag deployment or seatbelt tightening after an initial, "soft" impact. These types of crashes are referred to herein as "prolonged" or "long-soft" crash onsets. This would include, for example, a crash into another vehicle's bumper which—because the bumper is comparatively "soft"—may take time before the "soft" bumper collapses, and a "hard" impact into the engine compartment begins. ¹⁶ "Soft" crashes involve a "relatively long crash duration" that may last 20-50 percent longer than a head-on crash into a rigid barrier, like a cement wall. ¹⁷
- 43. In a prolonged onset crash, the initial impact into a "soft" surface, such as a bumper, starts the SDM clock ticking. Depending on the crash conditions such as speed, road incline, angle of impact, weather, ice on the road, etc., this "soft" impact may not require airbag deployment before 45 milliseconds has elapsed. Throughout the "soft" impact, the SDM will be in wake-up mode to search for a confirmatory signal. But it will not find another input sufficient to trigger the airbags from the "soft" impact. As explained above, in the Class Vehicles, the SDM clock effectively times out when the 45-millisecond mark hits. So, if the crash proceeds through the "soft" layers and into the engine compartment of another vehicle at say, 75 milliseconds, no airbag or seatbelt deployment is possible no matter how severe the later, "hard" impact gets.
- 44. In practice, this means that the airbags and seatbelt pretensioners in the Class Vehicles can *only* fire within 45 milliseconds of a first, irregular signal. If a second, irregular signal occurs after 45 milliseconds, but before the SDM has reset, the SDM purposefully, by

¹⁶ An example of a "soft" crash is where a vehicle crashes into a deformable barrier, or crashes at an angle, which will result in a "softer" impact than a head-on crash into a rigid barrier (which is a "hard" crash). Chan, *supra* note 6, at p. 40.

¹⁷ Chan, *supra* note 6, at p. 40.

design, disregards the second signal, even if it would otherwise trigger airbag deployment and/or seatbelts to tighten.

- 45. The net result is a "dead zone" starting just 45 milliseconds into a crash, after which vehicle occupants are completely vulnerable before the SDM software resets. The dead zone lasts until the SDM detects that the crash has ended completely (meaning that the irregular signals have concluded, and the vehicle has resumed normal operation), and then resets back to normal mode. After the SDM has reset, additional impacts or irregular inputs register as new events, triggering the process to begin anew.
- 46. This significant gap in protection after 45 milliseconds is unreasonably dangerous because accidents—particularly complicated, real-world accidents—are not necessarily completed at that point. In many cases, a crash continues in the "dead zone," and airbags and the thresholds for airbag and seatbelt deployment are met during that time. Yet, GM's SDM software calibration in the Class Vehicles prevents deployment of the airbags and seatbelt pretensioners in the "dead zone" while a crash is still underway—which is a serious, unjustified, and dangerous safety defect. Indeed, even GM's own cars division includes a significantly longer window for potential deployment.

C. GM knew that the SDM Calibration Defect was dangerous and unjustified but has failed to warn or compensate consumers.

- 47. GM knew or had reason to know of the SDM Calibration Defect and the risks it entails from at least July 10, 2009, when GM acquired substantially all of Old GM's books, records, and personnel, and the knowledge about the defective SDM software calibration those books, records, and personnel held. GM has continued to acquire knowledge—based on lawsuits implicating the SDM Calibration Defect and hundreds of publicly reported accidents with airbag and seatbelt failures—from 2009 to the present.
- 48. Nonetheless, GM has continued to conceal this problem and the pattern of accidents, injuries, and deaths that have resulted from it. GM has failed to share this information with the consumers who paid for and drive these Class Vehicles every day.

- 49. It should come as no surprise that GM has unreasonably and unsafely delayed disclosure of the SDM Calibration Defect. Indeed, GM has a recent history of attempts to avoid the costs, potential liabilities, and reputational harms from a safety recall for Takata airbags and seems to have repeated that same tactic here.
- As is now public knowledge, millions of GM vehicles contain the dangerous and 50. defective Takata airbag inflators that can explode with too much force and spray metal shrapnel into vehicle passenger compartments. While the dangers of these Takata airbags were widely known for years, GM lobbied regulators to delay a recall for its affected vehicles to avoid a resulting hit to its profits. ¹⁸ In 2016, GM reported that recalling its vehicles with Takata inflators would cost hundreds of millions of dollars.¹⁹
- 51. Consumers brought a putative class action seeking redress. See In re Takata Airbag Product Liability Litigation, Case No. 14-cv-240009, Dkt. 2750, (S.D. Fl.). While other vehicle manufacturers had earlier and voluntarily recalled their vehicles with Takata airbags, it was only years later, with that consumer litigation pending, that GM finally issued a belated recall. And importantly, it did so only after regulators from NHTSA denied GM's petition for inconsequentiality, in which it attempted to argue that a recall was not necessary.²⁰
- 52. Here, as in *Takata*, GM knew or should have known that the SDM software calibration strategy in the Class Vehicles—which includes a dead zone that prevents the airbag and seatbelts from deploying after 45 milliseconds until the SDM resets—was dangerous. Nonetheless, GM kept using it anyway, did not recall or repair the Class Vehicles to correct it, and still has not told consumers about it.

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¹⁸ "GM seeks to delay recall of 1 million vehicles with Takata air bag inflators." *Reuters*, 25 September 16, 2016. Available at: https://www.reuters.com/article/us-gm-recall/gm-seeks-todelay-recall-of-1-million-vehicles-with-takata-air-bag-inflators-idUSKCN11M27N (last visited 26 January 26, 2023).

¹⁹ *Id*. 27

²⁰ "GM will recall 7 million vehicles for air bag issue worldwide." *Reuters*, November 23, 2020. Available at: https://www.reuters.com/article/us-gm-recall/gm-will-recall-7-million-vehicles-forair-bag-issue-worldwide-idUSKBN2831TH (last visited January 26, 2023).

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²¹ Huffman, *supra* note 9.

²² Solomon, *supra* note 10, at 13.

1. Old GM recklessly downplayed serious risks of injury when it chose to include the SDM Calibration Defect in the Class Vehicles.

- 53. In general, the vehicle manufacturer provides the requirements to set the deployment thresholds in the SDM software calibration that will trigger a command to fire the airbags and/or tighten the seatbelts. The vehicle manufacturer uses results from laboratory crash testing to inform these parameters.²¹
- 54. But laboratory results are not sufficient in themselves, because real-world accidents—which can occur from multiple angles and involve inputs from myriad variables like weather, temperature, or incline—will differ from the testing environment.²² For that reason, manufacturers must exercise appropriate care to design crash sensing frameworks that function to keep people safe in the real world.
- 55. As relevant to the defect here, Old GM worked with Delco Electronics (later called Delphi Electronics, now known as Aptiv) to select and install SDM models and develop the SDM software program used in the Class Vehicles, starting with Model Year 1999. As to the physical component, Old GM installed Delco SDMs in many of its vehicles, including all the Class Vehicles. The model names for Delco SDMs have changed over time, and have included, from earliest to latest, models known as the SDM-GS, ²³ SDM-11, SDM30, and others. GM continued to use Delco SDMs and the defective calibration in its vehicles after it was formed in 2009, including in all the Class Vehicles.
- In addition to the Delco hardware, GM also worked with Delco to develop and 56. implement the software that controls the SDMs. To that end, Delco developed a proposed software program, known originally as ALGO-S, and presented it to Old GM for review.
- 57. During this time, Old GM divided the design and development of its vehicles into a "cars" group and a "trucks" group, with the trucks group responsible for design, development, and production of larger model trucks and SUVs. After it reviewed the Delco team's proposed

²³ The SDM-GS is the SDM model included in Mr. Nossar's 2005 Trailblazer, which would have been in development during Mr. Caruso's tenure with Delco, which ended in 2006.

SDM software algorithm, ALGO-S, the trucks group insisted on adding the 45-millisecond cut off described above when it calibrated that program for use in its trucks and SUVs.

- 58. The 45 millisecond cut off was dictated by GM trucks as part of its calibration strategy for all vehicles within the fleet. This means that regardless of any differences across makes and model years, all vehicles within the group include SDM software that was calibrated to meet GM trucks' guiding philosophy for when and how the safety systems will deploy, which included the SDM Calibration Defect.
- 59. On information and belief, the trucks group insisted on this cutoff based on test results which indicated that frontal-barrier accidents (i.e., a simulated, single-impact crash into a hard barrier) in its trucks and SUVs would not require airbags after 45 milliseconds or less in laboratory conditions.
- 60. In response, the Delco team expressly warned the trucks group that such an aggressive cutoff could fail to capture additional signals in complex crashes outside of the laboratory, leaving occupants completely unprotected during prolonged onset crashes or crashes with multiple impact points. On information and belief, documents, records, and personnel reflecting GM trucks' insistence—over Delco's objection—to include this cutoff were passed on from Old GM to New GM in 2009.
- 61. GM's own cars group, and on information and belief, other major vehicle manufacturers throughout the industry, include a significantly longer window for the SDM to detect a potential accident and deploy the airbags and seatbelts. Indeed, in the ALGO-S program as it was originally designed by Delco, the window in which the airbags and seatbelts can deploy in a crash is *multiple* times the level set by GM Trucks (up to 150 milliseconds). Tellingly, after the Delco team repeated the same warnings about the truck group's proposed 45-millisecond cutoff to GM's cars group, the cars group rejected the shorter cutoff. Instead, the cars group used the ALGO-S software with the Delco-recommended period that was two or even three times longer than the GM Trucks group's proposal. GM ignored this decision by the cars group in insisting on the dangerous calibration.

- 62. Delco's original 150-millisecond window allows for airbag and seatbelt deployment in real-world frontal crashes, which themselves can endure for up to 150 milliseconds.²⁴ When GM trucks added the defective 45-millisecond cutoff to the software calibration in the Class Vehicles, it prematurely, and dangerously, prevented the airbags and seatbelts from functioning when a frontal crash may still be well underway.
- 63. Given their serious concerns, Mr. Caruso and his Delco team refused to release the defective software calibration for use in GM trucks and SUVs until Old GM signed a disclaimer of Delco's liability for the modified calibration. The trucks group still insisted on the defective calibration, signed the disclaimer, and the 45-millisecond cutoff was added in the SDM software calibration as used in GM trucks and SUVs.²⁵
- 64. This defective calibration was included in all of the trucks and SUVs under the direction of GM's trucks group, including all the Class Vehicles. This is so because, as explained above, the abrupt cutoff was part of a calibration philosophy that is not vehicle dependent, i.e., it was a decision on the overall strategy for safety system deployment that applied to all vehicles within the group, including all the Class Vehicles.
- 65. In practice, this meant that GM Trucks leadership set the calibration strategy for all vehicles within the Trucks group (including all the Class Vehicles), and the software engineers tasked with implementing that strategy for individual vehicle platforms were obligated to follow that strategy for all vehicles within the group—the strategy was not set, or adapted, at the individual vehicle level.
- 66. This group-level approach to vehicle software is logical from a cost and resources standpoint; developing software algorithms is time intensive and expensive, making it effective and ordinary practice to develop one algorithm for use across multiple vehicle makes and models.
- 67. This typical practice of using the same SDM software strategy for groups of vehicles is evidenced by a prior recall conducted by GM in September 2016. Specifically, GM

²⁴ Chan, *supra* note 6, at p. 169.

²⁵ See Objection to Defendants' Motion for Partial Summary Judgment, McCoy v. General Motors LLC, Case No. X03- HHD-CV-20-6142910-S (Conn. Sup. Ct), available at: https://civilinguiry.jud.ct.gov/DocumentInquiry/DocumentInquiry.aspx?DocumentNo=23354481.

previously recalled some 3,640,000 vehicles across three different model years (from 2014 to 2017) due to a "software defect" present in the SDM software in all of those vehicles. As GM described it, the SDM software in *all of these* vehicles included the same "oscillation test" in the software that could "interfere with the SDM's proper deployment of frontal airbags or pretensioners as required."²⁶

- 68. This oscillation-test issue is distinct from the 45-millisecond cutoff described in this case, but GM's use of the same software with the identical defective oscillation test in more than three and a half million vehicles is evidence that GM developed and applied the same SDM software across a very large range of makes and model years.
- 69. The widespread use of this same oscillation test in the SDM software used for a wide variety of makes and models, including both GM cars and trucks, also supports Plaintiffs' allegations in this case that both GM trucks and GM cars used the same SDM software algorithm (which started as ALGO-S) to control the SDMs in the vehicles under their direction, but that GM trucks modified the algorithm as designed to include the SDM Calibration Defect.
- 70. Finally, the use of the same software calibration strategy across many different vehicles is further supported by Mr. Caruso's description of his work with Old GM in setting and implementing the software calibration strategy for vehicles at the group level, for the trucks group and cars group. *See*, *e.g.*, Nossar Report, *supra*, at p. 5 (Mr. Caruso recounting the "GM Truck Groups' edict to set certain crash sensor calibration parameters outside the recommended minimum guidelines set by the crash sensing algorithm designers").

2. The 45-millisecond cutoff was not necessary to protect against "late" airbag deployments.

- 71. GM trucks group's insistence on the 45-millisecond window after which the airbags and seatbelts cannot deploy was unjustified and unsafe.
- 72. On information and belief, the trucks group chose to set this aggressive cutoff due to concerns about the potential for airbags to deploy "too late" during an accident. But as the

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²⁶ See General Motors LLC Part 573 Vehicle Safety Recall Report, 16-V-651 (September 2016) available at: https://static.nhtsa.gov/odi/rcl/2016/RCLRPT-16V651-2475.PDF.

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trucks group also knew, these concerns were unwarranted given technology that mitigated the risks of "late" airbag deployments.

- 73. A brief history of airbags in motor vehicles puts this dangerous decision in context. Before 1998, airbag systems were effectively one-size-fits-all. Designed to protect against only frontal crashes, these "first-generation" airbags were built to meet a standardized government test that required they protect an unbelted, midsize adult male dummy (175 pounds) in a 30-MPH crash into a rigid barrier.²⁷ To do so, an airbag had to fill up quickly with gas, resulting in a deployment speed of up to 200 MPH.²⁸
- 74. Not all vehicle occupants fit this description, however, and the intensity of firstgeneration airbag deployment could prove dangerous for children and those who were positioned too close to the bag when it inflated (for example, because they had already been thrown forward toward the steering wheel during an under-way accident).²⁹
- 75. Public perception about airbag safety in motor vehicles, and in turn, the vehicle manufacturers that sold them, turned increasingly unfavorable following reports of late and aggressive deployments in first-generation airbags. Both regulators and vehicle manufacturers recognized the need to address these issues.³⁰ Beginning in October 1995, NHTSA initiated a series of actions to minimize and eventually eliminate the adverse effects of late and aggressive airbag deployments while preserving their life-saving benefits.³¹
- 76. In 1997, NHTSA issued modified federal rules to allow automakers to reduce the energy in frontal airbags. This led to "an industry-wide changeover" to "redesigned" airbags in

²⁷ Jack Keebler, Airbags Safe Insane? – Special Report, Motortrend (Sept. 1, 2000), https://www.motortrend.com/news/airbags-safe-insane-special-report/ (last visited January 26, 2023).

²⁸ Id.; see also David B. Ottaway & Warren Brown, From Life Saver to Fatal Threat, The Wash. Post (June 1, 1997), https://www.washingtonpost.com/archive/politics/1997/06/01/from-lifesaver-to-fatal-threat/56d05b9e-a1bc-49b7-beb4-43480762b25e/ (last visited January 26, 2023). ²⁹ Susan A. Ferguson & Lawrence W. Schneider, *An Overview of Frontal Airbag Performance* with Changes in Frontal Crash-Test Requirements: Findings of the Blue Ribbon Panel for the Evaluation of Advanced Technology Airbags, Traffic Injury Prevention 3 (Nov. 2008). ³⁰ U.S. Department of Transportation, NHTSA, An Evaluation of the 1998–1999 Redesign of

Frontal Air Bags, NHTSA Technical Report No. DOT HS 810 685, p.11, (August 2006) [hereinafter "NHTSA Redesign Report"]; see also Ferguson & Schneider, supra note 29. ³¹ NHTSA Redesign Report, supra note 30, at vii.

the very next model years (1998-1999).³² The "redesign" consisted of several new technological innovations. The first and immediate solution was "depowered" airbags: automobile manufacturers removed some of the gas-generating propellant or stored gas from the inflators to reduce the pressure and velocity of deployments. This change alone was highly effective in reducing low-to-moderate speed fatalities.³³

- 77. Other innovations to reduce the risk of aggressive deployments included reducing the volume or rearward extent of airbags, positioning them further from occupants, revised folding techniques, and tethering and shifting from pyrotechnic inflators to hybrids including stored gas.³⁴
- 78. Old GM knew about and employed these new technologies in its vehicles. Indeed, as the director of Old GM's Safety Center Terry Connolly said in 2000, there were no significant downsides to using this new "depowered" airbag technology, even for unbelted passengers.³⁵
- 79. Further innovations referred to as "advanced" or "smart" airbags followed soon thereafter.³⁶ "Advanced" airbags alter deployment patterns according to feedback from several sensors. These sensors tailor how the airbag deploys based on the severity of the crash, the size and posture of the vehicle occupant, whether the occupant is wearing a seatbelt, and how close the occupant is to the airbag. ³⁷
- 80. Many "advanced" systems use dual-stage or multi-stage inflators. This means that they have two inflation stages that can be ignited sequentially or simultaneously depending on crash severity.
- 81. "Advanced" airbags phased into production beginning September 1, 2003 and were required in all new vehicles by September 1, 2006.³⁸

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³² Id.; see also Micah Wright, The Hidden Dangers of Older Airbags, MotorBiscuit (May 8,

^{2015),} https://www.motorbiscuit.com/the-hidden-dangers-of-older-airbags (last visited January 26, 2023).

³³ See NHTSA Redesign Report, supra note 30 at 25.

³⁴ *Id.* at vii.

³⁵ Keebler, *supra* note 27.

³⁶ See NHTSÂ Redesign Report, supra note 30 at p. 3.

 $[\]int_{0.07}^{37}$ Wright, supra note 32.

³⁸ NHTSA Redesign Report, supra note 30, at vii.

- 82. Thus, based on the depowered and advanced airbag technology starting in 1998 and 1999, the risks posed by "late" deployments in early generation airbags had greatly diminished. Indeed, while NHTSA estimates that more than 290 deaths were caused by frontal airbag inflation between 1990 and 2008, nearly 90 percent of those deaths occurred in vehicles manufactured before 1998 (i.e., with first-generation airbag technology). Today, with this new technology, serious injuries from properly functioning airbags are rare. 40
- 83. Despite knowledge and use of the new technology mitigating the risks of late deployments, the trucks group still insisted on shutting off the airbags and seatbelts in the Class Vehicles after 45 milliseconds. On information and belief, despite these well-established advancements in airbag technology outlined above, GM continued to use this same defective software calibration strategy in its vehicles in 2009 and beyond.

3. GM knew about a pattern of suspicious accidents involving the SDM Calibration Defect in the Class Vehicles.

- 84. GM's reckless decision and continued disregard for clear warnings about the risks in shutting off the SDM too soon during an accident has had real and tragic consequences.
- 85. As outlined above, GM has known about the SDM Calibration Defect since it took over Old GM's books, records, and personnel in 2009. GM has continued to accrue knowledge of the defect, and its serious consequences, in the years since. Indeed, GM has known about, investigated, and even litigated numerous crashes in which airbags suspiciously failed to deploy in multi-impact or prolonged-onset frontal crashes in the Class Vehicles—a clear indication of the SDM Calibration Defect.
- 86. Despite obvious signs of a known and dangerous risk, GM concealed these accidents and the SDM Calibration Defect from consumers and regulators to avoid or at least delay a recall and the attendant costs and reputational damage therefrom. To date, GM has taken no corrective action to repair or recall the Class Vehicles to address this defect.

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³⁹ Insurance Institute for Highway Safety. "Airbags" (2021), available at: https://www.iihs.org/topics/airbags (last visited January 26, 2023). ⁴⁰ *Id*.

a. <u>GM has litigated (and settled) many personal injury lawsuits</u> for suspicious airbag failures in the Class Vehicles.

- 87. In addition to its institutional records and knowledge, GM was on notice of the SDM Calibration Defect through litigating and settling personal injury lawsuits involving airbag and seatbelt failures consistent with the SDM Calibration Defect.
- 88. As noted above, Chris Caruso has served as an expert witness in many of these lawsuits. Mr. Caruso has "over 43 years working in the automotive engineering field." Exhibit D at 4. This includes work as an engineer for Old GM from 1979 to 1986. Thereafter, from 1986 to 2006, Mr. Caruso worked for Delco Electronics, where he was "involved in the development and implementation of the second generation of airbag system on GM vehicles and their subsidiaries in the US." *Id.* at 1. Mr. Caruso also worked as a "lead engineer in the development of crash sensor specifications and the airbag sensing systems for major OEM's worldwide," including Old GM, and himself "designed the SDM crash sensing algorithms." *Id.* at 1-2. Mr. Caruso worked for Delco through August of 2006. Thereafter, he began work in his current role as a consultant with Automotive Safety Consulting, where he has "served as a consultant for both plaintiffs and defendants in numerous cases involving automotive safety systems, including cases involving EDR/CDR downloads and readouts." *Id.* at 4.
- 89. Mr. Caruso recounts much of this work experience and the history of the SDM Calibration Defect in public documents in a case filed in 2011, just two years after GM was formed.
- 90. In that case, Plaintiff James Nossar sued GM LLC following a crash in his 2005 Chevrolet Trailblazer (a Class Vehicle here). As detailed in that complaint, on or about February 25, 2010, Mr. Nossar drove his Trailblazer into the back of a 1999 Suburban "and sustained a moderate to severe frontal impact . . . at a rate of speed that exceeded the airbag system's predetermined deployment threshold." *See Nossar v. General Motors LLC*, Dkt. 4, Case No. 1:11-cv-02129 (N.D. Ga.). Despite this "significant frontal collision," the airbag failed to deploy and seatbelt pretensioners failed to trigger. Without the airbag or seatbelt to protect him, Mr. Nossar's

head slammed into the steering wheel, which caused "fracturing practically every bone in his face and brain injuries." *Id*.

- 91. In support of his claims, in April 2012, Mr. Nossar filed an expert report from Chris Caruso who, as explained above, is an expert in automotive crash sensing systems who worked for Delco engineering during the development of the defective SDM software calibration in the Class Vehicles. *See id.* at Dkt. 40-1.
- 92. In that report, Caruso detailed the same flaws in the SDM software calibration described herein. He explained that the airbag sensing system in the Trailblazer was "defective by design and has the potential to not deploy frontal impact airbags in high speed frontal impacts where conditions vary slightly from the perfect laboratory conditions where the system was designed and tested." Based on Caruso's experience working in the development of the SDM software, he related that there were concerns, due to the calibration, "that in longer duration, but high severity events and in concatenated events (such as a curb impact followed by a utility pole impact), the airbags would fail to deploy because the algorithm deployment thresholds were no longer active." *Id*.
- 93. Caruso further explained that as that litigation proceeded into discovery, he would "expect to identify emails and other correspondence between GM Truck Engineers and Delphi Crash Sensor engineers discussing the concerns over GM Truck Groups' edict to set certain crash sensor calibration parameters outside the recommended minimum guidelines set by the crash sensing algorithm designers [the Delphi/Delco engineers]." Caruso expected to obtain this corroborating evidence because he "ha[d] seen these documents before and kn[e]w the content," and summarized that "the calibration values result in premature turning off of algorithm thresholds which effectively disables the front airbags after 45 to 50ms." *Id.* (emphasis added).
- 94. Mr. Caruso's expectations as to what discovery would reveal are plausible because of his contemporaneous experience with Delco and Old GM in the time period in which Mr. Nossar's vehicle was developed. Mr. Caruso left Delco in 2006, long after the development concluded for Mr. Nossar's model year 2005 vehicle. (Because vehicles are actually sold in their

model year, *i.e.*, 2008 vehicles are sold in 2008, their development predates the actual model year by, one, two, or more years).

- 95. As to Mr. Nossar's 2005 Trailblazer specifically, Caruso observed that the vehicle included a version of the SDM hardware known as the SDM-DS, and concluded:
 - The airbags and seatbelts failed because, at the time the airbags should have deployed, and consistent with the SDM Calibration Defect here, "the SDM calibration had already timed out after 45-50ms after the crash started."
 - "In reviewing the crash performance of the sensing system for the subject vehicle, with respect to the conditions of the subject crash, it is clear that the calibration values result in premature turning off of algorithm thresholds which effectively disables the front airbags after 45 to 50ms."
- 96. "The failure by GM to understand the **risks of certain dictated calibration values** [in the SDM software calibration] led directly to the design defect that rendered the frontal impact airbag system in the 2005 Chevrolet Trailblazer defective and unreasonably dangerous in certain field relevant, real-world crashes." *Id*.
- 97. GM LLC, a named defendant in the *Nossar* case, clearly knew about and received Mr. Caruso's report outlining the history of these issues in the SDM software calibration.
- 98. The *Nossar* case and Mr. Caruso's report support that Old GM continued to install SDMs with the Calibration Defect in its vehicles at least through model year 2005.
- 99. More recently, Mark McCoy filed a lawsuit against GM LLC in 2020 after a serious accident in his 2018 Sierra Denali 2500. *See McCoy v. General Motors LLC*, Case No. X03- HHD-CV-20-6142910-S (Conn. Sup. Ct).
- 100. While on a freeway exit ramp, at a sharp turn, Mr. McCoy veered off the road, crashed into a fence, and then crashed into a trailer, before finally crashing into a construction vehicle parked near the ramp. None of the airbags in his vehicle deployed. As a result, Mr. McCoy sustained "catastrophic, painful and severely debilitating injuries," including traumatic

spinal injuries, total paralysis from the chest down, a traumatic brain injury, and a broken nose, among other injuries. 41 Below is a picture of Mr. McCoy's Denali after the crash:

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101. Mr. Caruso also served as an expert for plaintiff in the *McCoy* case and submitted a detailed report in connection with summary judgment briefing in that matter.⁴² Therein, Mr. Caruso described his history with the company, including warning Old GM against using the defective software calibration in trucks and SUVs, and his insistence on a disclaimer of liability before releasing the calibrations for use in the Class Vehicles.

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⁴¹ See June 19, 2020 Amended Complaint, ¶ 8, McCoy v. General Motors LLC, Case No. X03-HHD-CV-20-6142910-S (Conn. Sup. Ct) ("McCoy"). Available at: https://civilinquiry.jud.ct.gov/DocumentInquiry/DocumentInquiry.aspx?DocumentNo=19161992

⁴² Mr. Caruso's opinions in the McCoy case became publicly available only after the April 2022 hearing on the Defendants' motion to dismiss in this matter, and were also not available at the time Plaintiffs filed their amended complaint in October 2021.

102. Further, Mr. Caruso described his work after he left Delco in 2006 in failure-to-deploy lawsuits "where the root cause was determined to be the 45ms SHUTOFF criteria" [i.e., the SDM Calibration Defect]" in "numerous" GM trucks and SUVs in "earlier model[s]" than model year 2018.⁴³

103. Through discovery in the *McCoy* matter, Mr. Caruso analyzed the actual software calibration file for the SDM software in Mr. McCoy's model year 2018 vehicle. Based on his review of the file, Mr. Caruso concluded that the algorithm in the 2018 vehicle remained a "carry over" from the SDM software algorithm, ALGO-S, he himself designed years prior. Exhibit D at 16. Moreover, Caruso concluded that in the 2018 Sierra, GM "appeared to be using **very similar shutoff times in this calibration**" to those he had previously objected to in earlier model years in which GM "forc[ed] the use of 45ms shutoff times." *Id.* at 18.

104. The presence of the defective calibration strategy in a GM truck sold at least 12 years after he stopped working for Delco came as some surprise to Caruso. Indeed, he "had believed" GM would have discontinued the use of the dangerous calibration prior to model year 2018. But the software itself told a different story. In summary, based on the actual software, discovery produced in that case, as well as the crash conditions from the McCoy accident, Caruso opined:

- "The failure to deploy [the] airbags resulted in a condition that was defective, unsafe and unreasonably dangerous" to the driver in this vehicle;
- "[I]t appears that [GM trucks Group] is **still employing very aggressive stop times**" in its software calibrations as of model year 2018; and
- GM should have implemented an "alternative design" to "[m]odify the algorithm calibrations with more robust 120-150ms" cutoff thresholds.

See Exhibit D.

105. Caruso's report in the *McCoy* case—notably based on his review of the actual software calibration—demonstrates that at least through model year 2018, GM continued to install Delco SDMs governed by dangerous cutoff thresholds in calibrations based on the original ALGO-S software algorithm.

⁴³ Mr. Caruso's report in the McCoy matter is attached hereto as Exhibit D. *See id.* at 19.

106. Mr. Caruso also was able to identify the SDM hardware used in the McCoy vehicle as the Delco SDM30, which is evidence that GM continued to use the defective software calibration for all vehicles that contain that Delco SDM model. Publicly available crash data reports from NHTSA show the same Delco SDM30 was installed by GM in GM trucks in at least model years 2015 and 2016, including in the model year 2015 Chevrolet Trax, 2015 Chevrolet Tahoe, and 2016 Yukon Denali.

107. Likewise, on information and belief, Plaintiffs Vargas, Ray, and Milstead's Class Vehicles contain SDM-11 model Delco SDMs. Given their model years and the Delco SDM, the plausible, and most reasonable, inference is that they also included the associated defective calibration strategy GM used with Delco SDMs.

108. Based on: (1) Mr. Caruso's early knowledge of the SDM Calibration Defect when it was first used; (2) his subsequent tenure with Delco through 2006, during which model year vehicles for subsequent years were already in development; (3) his expert opinion on the presence of the SDM Calibration Defect in a model year 2005 vehicle (*Nossar*) after his assessment of the vehicle performance and crash dynamics; and (4) his opinion about defect's persistence in a model year 2018 vehicle with the Delco SDM30 (*McCoy*)—the plausible, and most reasonable, inference is that the defect persisted in the years between 1999, 2005 and 2018.

- 109. Following service of Mr. Caruso's expert report and deposition in the *McCoy* case, GM agreed to settle the case in December 2022.⁴⁴
- 110. In addition, Chad Vaith filed a lawsuit against GM LLC in 2017 after an accident in his MY 2014 Silverado. As that complaint relates, in December 2015, Mr. Vaith was involved in an accident in which he drove his Silverado "off the road into a ditch," after which he "continued through the ditch for approximately forty yards before launching over the driveway/culvert. . . before coming to a final rest approximately twenty yards south." *See Vaith v. General Motors LLC*, Dkt. 1, Case No. 18-cv-00031 (D. Minn.). Despite multiple impacts in that

⁴⁴ Plaintiffs' allegation of a settlement is supported by plaintiff's request in *McCoy* in October 2022 for additional time to withdraw the case because "additional time is necessary to exchange the necessary settlement documents." *See McCoy*, October 19, 2022 CaseFlow Request. Plaintiff then withdrew the matter last month, in December 2022. *See* December 19, 2022 Withdrawal of Action, *McCoy v. General Motors LLC*, Case No. X03- HHD-CV-20-6142910-S (Conn. Sup. Ct).

prolonged accident, the airbags and seatbelts did not deploy, causing Mr. Vaith to "suffer severe personal injuries." Mr. Caruso was a disclosed expert for plaintiff in that case, although his opinions about the 2014 Silverado were not publicly filed. *See, e.g., id.* at Dkt. 64.

- 111. Mr. Vaith's case proceeded into fact discovery and ultimately resulted in a "negotiated settlement" between Mr. Vaith and GM. *Id.* at Dkt. 82.
- 112. In addition to these previous lawsuits against GM with Mr. Caruso as an expert, another automotive crash expert, Sal Fariello, wrote directly to GM's CEO Mary Barra twice in December 2016 to raise similar concerns about issues he had observed in the airbag sensing system in model year 2006 GM SUVs. Mr. Fariello's letters are available in NHTSA's public records.⁴⁵
- 113. Mr. Fariello's letters to GM's CEO focused on an accident in a 2006 Trailblazer (a Class Vehicle here) for which he served as a litigation consultant in a lawsuit filed in or around 2014. Therein, he lists multiple technical issues with the airbag sensing system that he wanted to bring to GM's attention and urge them to address. For example, he cautions that, in his view:
- a. "The deployment thresholds [i.e., the inputs that will trigger deployment] for the airbag were set too high and compromised driver and passenger safety as a result of GM's improper effort to mitigate lawsuits related to relatively low speed deployments of the airbag.";
- b. "The deployment threshold did not meet GM's and generally accepted standards for when an airbag should deploy in order to prevent occupant death based on written technical papers and educational videos produced by GM or its employees."; and
- c. "Failure of the SDM to independently process a crash pulse and deploy the airbag implicates a defective software algorithm; specifically 'Algo S-H' [the software algorithm in the Class Vehicles]."
- 114. At the time, in 2016, Mr. Fariello proposed that the SDM could be re-programed "with a more responsive algorithm" to resolve these issues, and that GM's "only apparent motive for not doing this related to the cost of implementing a recall."

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⁴⁵ Mr. Fariello is a forensic crash investigator. *See* Bill Saporito, "Air Bag Blow Out," *Time Magazine*, (December 4, 2014). Available at: https://time.com/3617681/the-air-bag-blowout (last visited January 26, 2023).

115. Frustrated by the response he received from GM's counsel in response to these letters, Mr. Fariello then wrote to Senator Bill Nelson of Florida enclosing his correspondence to GM and escalating his concerns. Senator Nelson then forwarded that correspondence to NHTSA.⁴⁶

- 116. As Mr. Fariello concluded, in his view, GM was stalling on this issue "just as they did with the Takata airbag matter."
- of her deceased parent, Galen Greenwood. *See Greenwood v. General Motors LLC and General Motors Company*, Dkt. 1, Case No. 16-cv-00149 (M.D. GA). Galen Greenwood was fatally injured when his "airbag failed to deploy and his seat belt failed to properly restrain him" during a multi-impact crash in his 2006 GM SUV, a Chevrolet Equinox—hallmarks of the SDM Calibration Defect. *Id.* Specifically, "Mr. Greenwood lost control of the subject vehicle, traveled over the northbound lane and onto the west shoulder in a gradual manner, and impacted two trees with the front of the subject vehicle. During the incident sequence, the driver's side airbag failed to deploy and the seat belt failed to properly restrain Plaintiff's decedent. During the impact, Galen Greenwood suffered severe injuries which resulted in his death." *Id.* GM settled with Ms. Greenwood in May 2017. *See id.* Dkt. 20-1.⁴⁷
- Taken together, these and other allegations support the existence of the SDM Calibration Defect and the reasonable inference that Plaintiffs' model years 2010 and 2012 GM trucks and SUVs included it. Specifically, given that: (1) the model years of Plaintiffs' Class Vehicles were developed *after* Old GM first used the defective Software Calibration in or about 1999, and not long after Mr. Caruso left his role with Delco in 2006 (during which subsequent model years were already in development); (2) Plaintiffs' Class Vehicles predate the 2018 vehicle

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⁴⁶ Mr. Fariello's letters to GM and further documentation are available at: https://static.nhtsa.gov/odi/cmpl/2017/CL-10955948-3381.pdf (last visited January 26, 2023).

⁴⁷ In the *McCoy* matter, GM's designated corporate witness testified that he had previously offered testimony in a personal injury lawsuit about a crash where a vehicle "went off the roadway and struck a tree," where the plaintiff's name was Greenwood. On information and

belief, GM's corporate designee in the *McCoy* matter was thus also a deponent in this settled Greenwood lawsuit, demonstrating further corporate knowledge of persistent injuries from the SDM Calibration Defect in the field.

in which Mr. Caruso reviewed the software calibration, and concluded that the algorithm still included "very similar shutoff times" to those he had originally raised concerns about twenty years earlier; (3) corroborating instances between those two bookends (1999 and 2018) support the persistence of the defective calibration in the intervening model years (i.e., *Nossar*, *Vaith*, *Greenwood*, and Fariello's letters, discussed *supra*); and (4) the broad, cross-model way that SDM software calibration strategy is set and implemented across GM's fleet within a given model year, the plausible, and most reasonable inference is that GM installed the same defective calibration in all its trucks and SUVs at least through model year 2018.

b. <u>GM knew or should have known about hundreds of publicly reported airbag failures in the Class Vehicles.</u>

119. GM was also on notice of the SDM Calibration Defect and its attendant safety risks from consumer complaints. These complaints are publicly available online through NHTSA's website. Between 1999 and the present, hundreds of consumers reported to NHTSA that airbags and/or seatbelts had suspiciously failed during frontal crashes involving concatenated (multiple) impacts or potentially prolonged crash onsets. New allegations—including Mr. Caruso's report showing the defect continued in a model year 2018 vehicle—make the below crashes even more suspicious as relevant incidents with the hallmarks of the SDM Calibration Defect (airbag and seatbelt failures in concatenated and prolonged frontal impacts) in the very vehicles alleged to be impacted by that Defect (GM trucks and SUVs).

120. On information and belief, vehicle manufacturers such as GM monitor these public databases for complaints about their vehicles, considering their statutory obligations to report known safety defects in their vehicles to NHTSA and to consumers. Moreover, in many of these reports, it is expressly clear that GM was directly informed of, and even investigated, the accident in question. While GM has access to the full body of these complaints from 1999 and onward in the public database, it bears mention that over three hundred of them were filed after the new GM entities were created in 2009.⁴⁸

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⁴⁸ Many publicly reported accidents occurred prior to 2009, which information would likewise have been available to Old GM. GM would have acquired Old GM's knowledge of these accidents, reflected in its books, records, and personnel, when it was formed in 2009.

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121. One such complaint details an accident in a 2004 Chevrolet Trailblazer in August 2014. The driver states that they were traveling 50 MPH on a four-lane highway where another vehicle, waiting to U-turn, "decided to turn right into me—oncoming traffic." The vehicles crashed, which then "sent [the driver] into a head on collision with the guard rail." The driver questions that "there were 2 incidents in that sequence of events that the airbags should have deployed, but did not! This accident caused several injuries to myself and my passenger. We definitely could have been killed and no airbags to help save our lives..." Photos of the damage to the vehicle from that accident follow. (NHTSA Complaint #1100694).

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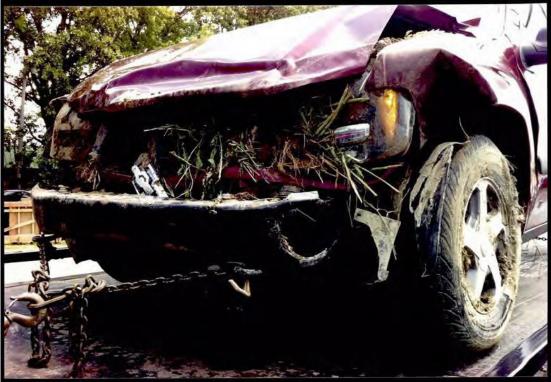
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Trailblazer. It states that the driver, at 30 MPH, swerved to avoid a deer in the road, which caused the vehicle to lose control, exit the road, and ultimately "crash[] off a 9 foot embankment." From there, the vehicle continued to crash through a field, into a dirt levy, and finally into a drainage ditch. None of the airbags deployed. The driver "became unconscious after his head crashed into the steering wheel" and "suffered severe neck injuries." The dealer later inspected the vehicle but responded that the results were "inconclusive" and that the manufacturer "was notified but offered no assistance." Photos of the damage to the vehicle from that accident follow. (NHTSA Complaint #942950).⁴⁹

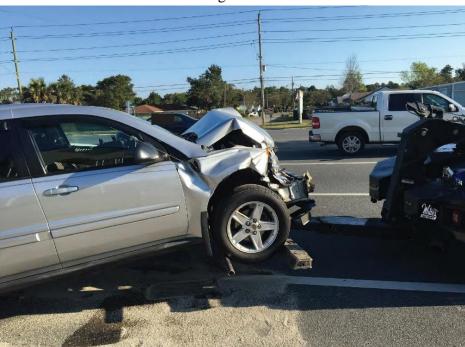
⁴⁹ Accident documentation and photos are available at: https://static.nhtsa.gov/odi/cmpl/2012/EQ-10477257-8767.pdf (last visited January 26, 2023).



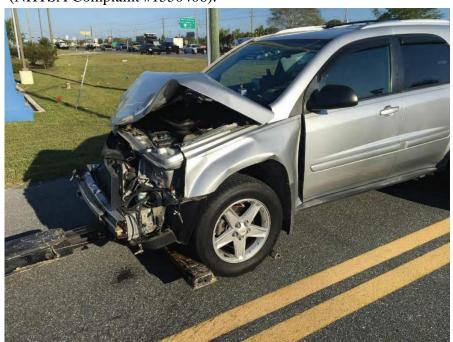


123. In another example, the complaint describes a serious accident in March 2019 involving a 2005 Chevrolet Equinox. The vehicle crashed into the front of another vehicle at 35

MPH. The airbags did not deploy. The driver sustained injuries to the head and ankle and required medical attention. Photos of the damage to the vehicle from that accident follow.



124. (NHTSA Complaint #1550406).⁵⁰



125. Another account of a July 2007 accident in a model year 2001 Isuzu Rodeo describes a crash at 65 MPH so severe that "the median on the highway sustained property

⁵⁰ Photos and accident information are available at: https://static.nhtsa.gov/odi/cmpl/2019/EQ-11191960-7090.pdf (last visited January 26, 2023).

looked after that accident:



damage" and "the vehicle was destroyed," but the airbags did not deploy. This is how the vehicle

126. Additional examples of similarly suspicious frontal accidents—i.e., frontal accidents with multiple discrete impacts, or potentially prolonged onset frontal crashes involving "soft" impacts—in which the airbags and/or seatbelts failed include:

a. NHTSA complaint #753287 dated Tuesday, October 16, 2001, reported an accident on Monday, October 8, 2001 involving a 1999 CHEVROLET SUBURBAN in Andover, KS. The complaint states: "60 MPH CROSS WIND BLEW THE SUBURBAN HEAD ON INTO THE CONCRETE MEDIAN. THE VEHICLE SPUN 360 DEGREES, WENT INTO THE DITCH, THE FRONT END HIT AGAIN THE VEHICLE WENT UP THE OTHER SIDE OF THE EMBANKMENT AND STOPPED IN A FIELD. ENTIRE FRONT END OF THE FRAME NOT REPAIRABLE . . . FRONT CROSSMEMBER BENT AND ENGINE MOVED UPWARDS AT A 10 DEGREE ANGLE. **AIR BAGS FAILED TO DEPLOY**. *AK"51

b. NHTSA complaint #859858 dated Friday, April 7, 2000, reported an accident on Saturday, April 3, 1999 involving a 1999 CHEVROLET SILVERADO. The complaint states: "WHILE TRAVELING ON A WET ROAD AT HIGHWAY SPEED OF 60 MPH VEHICLE HYDROPLANED, SPUN INTO A DITCH, AND COLLIDED INTO A TREE

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⁵¹ Emphasis is supplied here and in the paragraphs that follow.

1	WITH BOTH SIDES AND FRONT OF VEHICLE. UPON IMPACT, AIR BAGS FAILED TO
2	DEPLOY . MFR. NOTIFIED. *AK"
3	c. NHTSA complaint #877320 dated Wednesday, January 3, 2001, reported
4	an accident on Friday, December 1, 2000 involving a 1999 CHEVROLET SUBURBAN in
5	Amarillo, TX. The complaint states: "CONSUMER WAS TRAVELING ABOUT 40MPH ON
6	HIGHWAY AND ANOTHER VEHICLE VEERED INTO HER LANE, HITTING HER HEAD-
7	ON, AND PUSHING VEHICLE INTO ANOTHER LANE. VEHICLE HIT TELEPHONE
8	POLE, AND DUAL AIRBAGS DIDN'T DEPLOY. CONSUMER WAS INJURED.
9	CHEVROLET HAS BEEN NOTIFIED. *AK"
10	d. NHTSA complaint #10060150 dated Tuesday, March 2, 2004, reported an
11	accident on Tuesday, February 24, 2004 involving a 2001 CHEVROLET BLAZER in Austin,
12	TX. The complaint states: "DRIVER SIDE AIR BAG FAILED TO DEPLOY IN A CRASH
13	THROUGH: 1. A SIX FOOT TALL WOODEN FENCE AT ALMOST 30MPH, THEN 2. THE
14	EXTERIOR SIDE OF A 2-STORY HOME THAT CONTAINED THE KITCHEN SINK AND
15	PLUMBING FIXTURES, WHILE SMASHING UP AND OVER THE FIFTEEN-INCH
16	CONCRETE FOUNDATION, FRONT-END FIRST.*AK"
17	e. NHTSA complaint #10082050 dated Thursday, July 15, 2004, reported an
18	accident on Wednesday, July 14, 2004 involving a 2003 CHEVROLET SUBURBAN in Fresno,
19	CA. The complaint states: "THE CONSUMER WAS INVOLVED IN AN ACCIDENT WHERE
20	IT WAS HIT FROM THE FRONT DRIVER SIDE, THE IMPACT CAUSED THE VEHICLE
21	TO HIT A TELEPHONE POLE HEAD ON. THE AIR BAGS DID NOT DEPLOY. *JB"
22	f. NHTSA complaint #10103512 dated Friday, December 10, 2004, reported
23	an accident on Sunday, December 5, 2004 involving a 2001 CHEVROLET SILVERADO in
24	Rialto, CA. The complaint states: "CONSUMER'S VEHICLE WAS REAR ENDED WHILE
25	DRIVING 50 MPH. THE VEHICLE WAS FORCE[D] INTO A SPIN AND THEN, IT HIT A
26	CONCRETE ROAD DIVIDER. UPON IMPACT, NEITHER FRONTAL AIR BAGS
27	DEPLOYED . DRIVER SUSTAINED INJURIES, AND HAD TO BE TRANSPORTED TO A
28	LOCAL HOSPITAL. DEALER AND MANUFACTURER WERE NOTIFIED. THE

1	CONSUMER STATED THAT THE SEAT BELT DID NOT KEEP HER FROM HITTING HER
2	CHEST ON THE STEERING WHEEL."
3	g. NHTSA complaint #10108404 dated Tuesday, February 1, 2005, reported
4	an accident on Tuesday, January 11, 2005 involving a 2000 CHEVROLET SILVERADO in
5	Toney, AL. The complaint states: "A CAR PULLED OUT IN FRONT OF ME WHICH STILL
6	HIT THE DRIVER'S SIDE OF MY VEHICLE (2000 CHEVY SILVERADO). THEN MY
7	TRUCK HAD A FULL FRONTAL IMPACT AT GREATER THAN 30 MPH INTO A
8	DIRT WALL IN WHICH NEITHER THE DRIVER'S NOR PASSENGER'S AIRBAGS
9	DEPLOYED (THE TRUCK IS TOTALLED). I HIT THE STEERING WHEEL AND GOT A
10	CONCUSSION WITH BLOOD AROUND THE BRAIN, A BROKE CHEEK BONE, AND
11	FRACTURED HIP. MY WIFE WAS 33 WEEKS PREGNANT AT THE TIME AND HER
12	WATER BROKE AND SHE GOT A COMPOUND FRACTURE IN THE LOWER
13	LEG/ANKLE. AS A RESULT OF THE WATER BREAKING MY SON WAS BORN 3 DAYS
14	LATER 7 WEEKS PREMATURE. AS FOR WHAT WAS DONE TO CORRECT THE
15	PROBLEM I'M HOPING IT WILL AT LEAST BE INVESTIGATED TO MAKE SURE THIS
16	IS NOT A SYSTEMIC PROBLEM (I.E., SOFTWARE SCREWUP SOMETHING NOT
17	HOOKED UP RIGHT IN THE AIRBAG SYSTEM ETC)."
18	h. NHTSA complaint #10115806 dated Thursday, March 24, 2005, reported
19	an accident on Thursday, March 24, 2005 involving a 2002 CHEVROLET SILVERADO in
20	Claremore, OK. The complaint states: "A PIECE OF FURNITURE WAS LOCATED IN THE
21	MIDDLE OF THE HIGHWAY WHILE DRIVING, CAUSING THE DRIVER TO HIT THE
22	FURNITURE. DRIVER LOST CONTROL OF A VEHICLE, AND IT CRASHED INTO A
23	CONCRETE WALL. DRIVER'S SIDE SEAT BELT FAILED, AND THE AIRBAGS DID
24	NOT DEPLOY."
25	i. NHTSA complaint #10158090 dated Tuesday, May 23, 2006, reported an
26	accident on Sunday, February 26, 2006 involving a 2004 CHEVROLET TRAILBLAZER in
27	Fayetteville, NC. The complaint states: "DT*: THE CONTACT STATED WHILE DRIVING 50
	1

MPH THE VEHICLE WAS INVOLVED IN A HEAD ON COLLISION WITH ANOTHER

1	VEHICLE. THE VEHICLE CONTINUED MOVING AND STOPPED BY COLLIDING WITH
2	A STORE SIGN. THE AIR BAGS DID NOT DEPLOY AND SEAT BELTS WERE WORN.
3	. THE INSURANCE COMPANY DETERMINED THE VEHICLE WAS TOTALED DUE TO
4	THE ACCIDENT. THE DEALER DOES NOT HAVE THE MEANS TO TEST FOR AIR BAG
5	NON-DEPLOYMENT. UPDATED 1/24/2007 - *NM"
6	j. NHTSA complaint #10161658 dated Thursday, July 6, 2006, reported an
7	accident on Saturday, June 3, 2006 involving a 1999 CHEVROLET BLAZER in Ludlow, MA.
8	The complaint states in part: "CHEVY DRIVER HIT A CAR IN HER LANE FIRST, THEN
9	RICOCHETED HEAD ON INTO A TREE. NEITHER TIME DID AIRBAGS DEPLOY .
10	*TT"
11	k. NHTSA complaint #10163811 dated Friday, July 28, 2006, reported an
12	accident on Thursday, July 20, 2006 involving a 2000 ISUZU RODEO in Nederland, TX. The
13	complaint states: "A GIRL RAN A RED LIGHT AND I HIT HER IN THE PASSENGER SIDE
14	OF HER CAR HEAD ON WITH MY 2000 ISUZU RODEO. IT WAS A FULL FRONTAL
15	COLLISION FOR ME AND MY CHILDREN. LUCKILY, WE ARE ALWAYS BUCKLED UP
16	BECAUSE NONE OF MY AIRBAGS DEPLOYED AT ALL. THE OTHER CAR WAS
17	GOING ABOUT 60 MPH AND HER AIRBAG DEPLOYED WHEN I HIT HER BUT MINE
18	DID NOT. LUCKILY, MY CHILDREN WERE NOT HURT BADLY BUT
19	UNFORTUNATELY, I SUSTAINED NECK, BACK AND KNEE INJURIES. I WAS AND
20	STILL AM VERY UPSET THAT MY AIRBAGS FAILED. EVEN THE OWNER OF THE
21	BODY SHOP I USE WAS IN SHOCK THAT THEY DID NOT DEPLOY AS THE IMPACT
22	WAS ENOUGH TO SPLIT THE FRAME OF MY RODEO AND TOTAL IT OUT THANK
23	YOU FOR YOUR TIME, I HOPE I CAN HELP ANOTHER FAMILY FROM GETTING
24	INJURED."
25	1. NHTSA complaint #10217793 dated Tuesday, February 12, 2008, reported
26	an accident on Thursday, February 7, 2008 involving a 2006 CHEVROLET TRAILBLAZER in
27	Lakewood, OH. The complaint states: "A 2006 CHEVY TRAILBLAZER TRAVELING OVER
28	THE SPEED LIMIT ON MY STREET CRASHED INTO A TREE, A PARKED CAR, AND

1	THEN CONTINUED TO ROLL OVER ACROSS MY FRONT LAWN, LANDING
2	SIDEWAYS AFTER FLIPPING SEVERAL TIMES. THE OCCUPANTS WERE SEVERELY
3	INJURED. NO AIRBAGS DEPLOYED DURING THE CRASH. THE DRIVER OF THE
4	VEHICLE IS IN ICU NEEDING FACIAL RECONSTRUCTIVE SURGERY. *TR"
5	m. NHTSA complaint #10221319 dated Saturday, March 15, 2008, reported
6	an accident on Thursday, February 21, 2008 involving a 2005 CHEVROLET TRAILBLAZER in
7	Clay, NY. The complaint states: "I WAS DRIVING ON A 2 LANE ROAD GOING 45MPH. A
8	CAR WAS FOLLOWING CLOSE BEHIND ME SO I WENT TO GET INTO RIGHT LANE
9	AND MY TRUCK DID 5 360 AND HIT 3 TREES HEAD ON AND AIR BAG NEVER
10	DEPLOYED. *TR"
11	n. NHTSA complaint #10263896 dated Wednesday, April 1, 2009, reported
12	an accident on Thursday, March 26, 2009 involving a 2002 CHEVROLET TRAILBLAZER in
13	Elizabeth, NJ. The complaint states: "I WAS IN A CAR ACCIDENT, WHERE I WAS
14	TRAVELING AT ABOUT 35 MPH. AN AGGRESSIVE DRIVER SPEED AROUND ME AND
15	CUT ME OFF AND THAN STOMPED ON THIS BRAKES IN FRONT OF ME. DUE TO
16	THAT I SWERVED TO MISS HIM CLIPPING HIS RIGHT BACK LIGHT AD BUMPER
17	WITH MY LEFT HEADLIGHT AND BUMPER. AS I WAS SWERVING I HIT A TREE JUST
18	ABOUT DEAD ON WITH MY CAR I HIT THE TREE AT A SPEED OF ABOUT 28-30
19	MPH. AFTER INITIAL IMPACT I WAS RUSHED TO THE HOSPITAL DUE TO
20	UNCONSCIOUS AND FACIAL CONTUSIONS. DURING THE FIRST MOMENTS AFTER
21	THE ACCIDENT, ONE OF THE FIRST THINGS OFFICERS, EMTS AND WITNESSES SAID
22	WAS "I CAN'T BELIEVE THE AIRBAGS DIDN'T GO OFF." IN THE RECENT DAYS
23	AFTER THE ACCIDENT I HAVE HAD SEVERAL MECHANICS AND SUCH APPRAISE
24	THE CAR, THE ONE COMMON THEME THEY ALL SHARE IS THAT THEY SUSPECT
25	THERE MIGHT NOT BE AN AIRBAG WHERE IT BELONGS. OR THE LACK THERE OF.
26	*TR"
27	o. NHTSA complaint #10463248 dated Wednesday, June 27, 2012, reported
, e	an accident on Friday, July 15, 2011 involving a 2005 GMC in Richmond, VA. The complaint

1	states: "THE CONTACT STATED WHILE DRIVING 55 MPH, HE CRASHED INTO A TREE.
2	THE AIR BAGS FAILED TO DEPLOY A POLICE REPORT WAS FILED. THE
3	MANUFACTURER WAS MADE AWARE OF THE FAILURE; HOWEVER, THEY
4	PROVIDED NO ASSISTANCE THE CONSUMER'S VEHICLE WAS DAMAGED WHEN
5	HE TRIED TO AVOID HITTING THE VEHICLE BY SWERVING SIDEWAYS AND
6	SLIDING INTO THE GRASS. HE TRIED STOPPING THE VEHICLE WHILE IT WAS STILL
7	ON THE PAVEMENT BUT HE INEVITABLY RAN INTO THE DITCH AND FLEW
8	AIRBORNE INTO A TREE, AND THE TRUCK OVERTURNED."
9	p. NHTSA complaint #10524151 dated Wednesday, July 10, 2013, reported
10	an accident on Thursday, May 30, 2013 involving a 2006 CHEVROLET TRAILBLAZER in
11	Mansfield, OH. The complaint states: "THIS COMPLAINT IS BEING FILED ON BEHALF OF
12	THE VEHICLE OWNER AND DRIVER. THIS CHEVY TRAILBLAZER WAS INVOLVED
13	IN A TWO VEHICLE, DOUBLE FATAL CRASH. THE FRONT OF THE TRAILBLAZER
14	STRUCK THE DRIVER'S SIDE DOOR OF A CAVALIER THAT FAILED TO YIELD FROM
15	A STOP SIGN. THE TRAILBLAZER STAYED CONNECTED WITH THE CAVALIER,
16	FORCING IT OFF THE LEFT SIDE OF THE ROADWAY AND INTO A LARGE TREE.
17	BOTH OCCUPANTS IN THE CAVALIER WERE FATALLY INJURED. THE FRONT
18	AIRBAGS DID NOT DEPLOY ON THE TRAILBLAZER AND NO EVENT WAS
19	RECORDED ON THE AIRBAG CONTROL MODULE. *TR"
20	q. NHTSA complaint #10537593 dated Tuesday, August 27, 2013, reported
21	an accident on Tuesday, August 13, 2013 involving a 2003 CHEVROLET BLAZER in Harrison
22	Township, MI. The complaint states: "I WAS TRAVELING SOUTHBOUND WHEN I
23	EXPERIENCED A SEIZURE AND LOST CONTROL OF MY VEHICLE. I PROCEEDED TO
24	VEER TO THE LEFT WHERE I CLIPPED SEVERAL CARS THAT WERE HEADED
25	NORTHBOUND I THEN PROCEEDED OVER A TREE LAWN AND INTO A PARKING
26	LOT. I HIT A DODGE RAM PICKUP WITH THE RIGHT FRONT CORNER OF MY
27	VEHICLE AND PUSHED THAT VEHICLE INTO ANOTHER PARKED CAR THAT WAS
28	NEXT TO IT. BOTH VEHICLES ENDED UP SIDEWAYS AND MY VEHICLE ENDED UP

1	SPUN AROUND 180 DEGREES THE JAWS OF LIFE WERE USED TO EXTRACT ME
2	FROM MY VEHICLE. I WAS TAKEN TO A LOCAL HOSPITAL WHERE IT WAS
3	DETERMINED THAT I SUFFERED BURST FRACTURES OF L1, L2, AND L3. I ALSO
4	SUFFERED AN EVULSION FRACTURE OF MY LEFT ANKLE. THE POLICE REPORT
5	STATES THAT I WAS TRAVELLING AT A HIGH RATE OF SPEED AND THAT THE
6	VEHICLES WHICH WERE NORTHBOUND WERE JUST CLIPPED. THE AIRBAGS ARE
7	BOTH STILL WITHIN THEIR CASES AS NEITHER DEPLOYED THE INSURANCE
8	INVESTIGATOR EVEN EXPRESSED TO MY WIFE THAT HE WAS SURPRISED THAT
9	THE AIR BAG DID NOT DEPLOY."
10	r. NHTSA complaint #10550276 dated Wednesday, October 30, 2013,
11	reported an accident on Monday, October 28, 2013 involving a 2006 CHEVROLET
12	TRAILBLAZER in Neihart, MT. The complaint states: "TL* THE CONTACT OWNS A 2006

- reported an accident on Monday, October 28, 2013 involving a 2006 CHEVROLET
 TRAILBLAZER in Neihart, MT. The complaint states: "TL* THE CONTACT OWNS A 2006
 CHEVROLET TRAILBLAZER. THE CONTACT STATED THAT WHILE DRIVING
 APPROXIMATELY 35 MPH, SHE LOST CONTROL OF THE VEHICLE WHILE DRIVING
 IN SNOWY WEATHER. THE VEHICLE NOSE DIVED INTO AN EMBANKMENT AND
 THEN CRASHED INTO A BOULDER. THE AIR BAGS FAILED TO DEPLOY. THE
 CONTACT WAS TRANSPORTED TO THE HOSPITAL VIA AMBULANCE FOR
 TREATMENT OF A CONCUSSION AND BRUISING. THE FRONT PASSENGER WAS
 ALSO INJURED AND SUSTAINED BRUISING. THE VEHICLE WAS DESTROYED. THE
 MANUFACTURER WAS MADE AWARE OF THE FAILURE."
- s. NHTSA complaint #10574295 dated Sunday, March 23, 2014, reported an accident on Friday, February 21, 2014 involving a 2010 GMC TERRAIN in Saint Joe, IN. The complaint states: "INVOLVED IN A 21 CAR PILE UP IN THE UPPER PENINSULA DURING A COMPLETE WHITE OUT. WE WERE ONLY TRAVELING APPROXIMATELY 25 MILES PER HOUR BUT, WE DID HAVE SERIOUS IMPACT IN THE FRONT, AFTER HITTING A TRAILER AND ALSO SERIOUS IMPACT FROM BEHIND WHEN HIT BY A TRUCK AND TRAILER. NO AIRBAGS DEPLOYED. THE TRUCK TRAVELING AHEAD OF US, THAT WE HIT, THE AIRBAGS DID DEPLOY. MY FATHER AND BROTHER,

1	WHO WERE ALSO BOTH DRIVING CHEVY TRUCKS, AND ALSO HAD SERIOUS
2	FRONT END DAMAGE DURING THE SAME ACCIDENT, THEIR AIRBAGS DID NOT
3	DEPLOY EITHER. *TR"
4	t. NHTSA complaint #10576031 dated Monday, March 31, 2014, reported ar
5	accident on Sunday, March 23, 2014 involving a 2012 CADILLAC SRX in Kaplan, LA. The
6	complaint states: "I FELL ASLEEP WHILE DRIVING, JUMPED A LEVEE, RAN THROUGH
7	A FENCE, AND WRECKED IN A GRASSY WATERY AREA. MY ENGINE WAS
8	SMASHED, THE MOTOR MOUNT BROKE, AND MY TIRES ARE PUSHED BACK. MY
9	AIR BAGS DID NOT DEPLOY. MY FACE HIT THE STEERING WHEEL AND MY NOSE
10	IS BROKEN. I WOULD LIKE TO FIND OUT IF THERE IS ANY RECALLS ON THIS CAR.
11	*TR"
12	u. NHTSA complaint #10583703 dated Saturday, April 19, 2014, reported an
13	accident on Thursday, March 13, 2014 involving a 2012 GMC TERRAIN in Moneta, VA. The
14	complaint states: "I INADVERTENTLY VEERED OFF SIDE ROADWAY, (VA HIGHWAY
15	220) COLLIDING WITH A TREE/ROADSIDE SHRUBS, ETC (WAS KNOCKED
16	UNCONSCIOUS AS FOREHEAD HIT STEERING WHEEL ON INITIAL IMPACT).
17	AIRBAGS DID NOT DEPLOY ALLOWING ME TO SUSTAIN A HEAD INJURY THAT
18	KNOCKED ME UNCONSCIOUS FOREHEAD WAS GASHED WITH SIGNIFICANT
19	BLEEDING. I WAS TRANSPORTED BY AMBULANCE IN UNCONSCIOUS STATE.
20	DAMAGE TO VEHICLE IS IN EXCESS OF \$8,000 SO FAR AS VEHICLE STILL IN
21	REPAIR SHOP WITH MASSIVE FRONT END DAMAGE THAT AFFECTS STEERING
22	LINKAGE, ETC. THE IMPACT OF VEHICLE AGAINST FOLIAGE, TREES SHRUBS,
23	SHOULD HAVE FORCED AIR BAGS TO DEPLOY AND I BELIEVE THAT I WOULD NOT
24	HAVE SUSTAINED A HEAD INJURY THAT RENDERED ME UNCONSCIOUS WITH
25	MILD CONCUSSION AND COULD NOT CONTROL VEHICLE LEAVING ROADWAY.
26	*TR"
27	v. NHTSA complaint #10592423 dated Monday, May 19, 2014, reported an
28	accident on Thursday, May 8, 2014 involving a 2003 CHEVROLET SILVERADO in

1	Burtonsville, MD. The complaint states: "TRUCK COLIDED WITH GUARD RAIL.
2	BOUNCED OFF, HIT VEHICLE 1, THEN INTO VEHICLE 2 THEN STOPPED AFTER
3	HITTING VEHICLE 3 A SEMI TRUCK. ALL DAMAGE WAS DONE TO FRONT OF THE
4	CHEVY SILVERADO. AT NO TIME DID THE AIRBAGS DEPLOY."
5	w. NHTSA complaint #10622016 dated Wednesday, August 13, 2014,
6	reported an accident on Saturday, August 9, 2014 involving a 2012 CHEVROLET TAHOE in
7	The Colony, TX. The complaint states: "WHILE TURNING LEFT (TAHOE) WITH A
8	PROTECTED GREEN ARROW AT AN X-SHAPED INTERSECTION, VEHICLE (KIA
9	SEDAN) AT FAULT FAILED TO YIELD AND ENTERED THE INTERSECTION AT
10	SPEEDS UPWARDS OF 40 MPH FROM THE LEFT OF THE TAHOE. FRONT-IMPACT
11	COLLISION OCCURRED TAHOE STRUCK PASSENGER SIDE OF KIA SEDAN.
12	TRAJECTORY OF IMPACT CAUSED DIRECTIONAL CHANGES IN UPWARDS OF 90*
13	FOR BOTH VEHICLES; THE FORCE OF THE PRIMARY ACCIDENT DESCRIBED ABOVE
14	ALSO CAUSED MENTIONED VEHICLES TO COLLIDE WITH LEFT REAR OF ANOTHER
15	VEHICLE (HONDA SEDAN) DUE TO THE FORCE OF IMPACT, FRONT & SIDE
16	AIRBAGS DEPLOYED ON BOTH THE KIA SEDAN AND THE HONDA SEDAN, BUT
17	FAILED TO DEPLOY ON THE TAHOE FORCE WAS SUCH THAT AFTER THE
18	COLLISION, TAHOE TRANSMISSION WAS IN DRIVE, BUT REMAINED AT A
19	COMPLETE STOP. DAMAGE SUSTAINED ON THE TAHOE INCLUDE FRONT-END
20	BODY DAMAGE, ENGINE DAMAGE (VEHICLE REQUIRED TOWING AND WAS
21	INOPERABLE), AND FRAME DAMAGE, AT A MINIMUM MULTIPLE FIRST-
22	RESPONDERS COMMENTED ON THE ODDITY THAT, GIVEN THE DAMAGE
23	SUSTAINED BY THE TAHOE AND THE VELOCITY AT IMPACT, THE AIRBAGS
24	DEPLOYED ON ALL VEHICLES BUT THE TAHOE. *TR"
25	x. NHTSA complaint #10641399 dated Saturday, October 4, 2014, reported
26	an accident on Tuesday, June 7, 2011 involving a 2002 CHEVROLET TAHOE in Cheney, WA.
27	The complaint states: "THE CONTACT STATED THAT WHILE THE DRIVER WAS
28	DRIVING AT 45 MPH AND ATTEMPTED TO AVOID A CRASH WITH ANOTHER

1	VEHICLE. AS A RESULT, THE DRIVER CRASHED INTO A GUARDRAIL AND THE AIR
2	BAGS FAILED TO DEPLOY. A POLICE REPORT WAS FILED. THE CONTACT WAS
3	TAKEN TO A HOSPITAL AND SUSTAINED INJURIES TO THE RIBS, THE COLLAR
4	BONES, A BRAIN TRAUMA AND A COLLAPSED LUNG. THE DRIVER SUFFERED
5	FROM FATAL INJURIES."
6	y. NHTSA complaint #10767586 dated Tuesday, September 22, 2015,
7	reported an accident on Saturday, August 1, 2015 involving a 2004 CHEVROLET
8	TRAILBLAZER in Tallahassee, FL. The complaint states: "MY MOTHER WAS INVOLVED
9	IN A 1 CAR ACCIDENT ON BAUM RD LOCATED IN TALLAHASSEE, FL. SHE WAS THE
10	ONLY PASSENGER DETERMINED TO BE IN THE VEHICLE AT THE TIME OF THE
11	ACCIDENT. ACCORDING TO THE CRASH REPORT, D1 (DRIVER ONE) WAS
12	TRAVELING WESTBOUND ON BAUM RD GOING THE NORMAL POSTED SPEED OF
13	55MPH, WHEN SHE VEERED TOWARDS THE CENTER OF THE RD AND SUDDENLY
14	TURNED RIGHT VEERING OF THE RIGHT SHOULDER OF THE RD AND STRIKING
15	SEVERAL TREES ON THE DRIVERS SIDE AND FRONT END WHEN I WENT TO
16	RETRIEVE MY MOTHERS THINGS FROM HER TRAILBLAZER, I NOTICED THAT NO
17	AIR BAGS HAD DEPLOYED. AND AS FAST AS MY MOM WAS GOING AND THE
18	TYPE OF IMPACT & DAMAGE HER SUV SUSTAINED, I WOULD THINK AND HOPE
19	THE AIRBAGS WOULD DEPLOY IN THIS TYPE OF ACCIDENT, THUS PREVENTING
20	SERIOUS INJURY OR DEATH. MY MOM WAS NOT SO LUCKY, AND MYSELF AND MY
21	FAMILY HAVE ENDURED GREAT PAIN FROM LOOSING HER SO SUDDENLY."
22	z. NHTSA complaint #10907149 dated Friday, September 16, 2016, reported
23	an accident on Thursday, September 1, 2016 involving a 2006 CADILLAC SRX in Happy
24	Valley, OR. The complaint states: "THE VEHICLE HIT A CURB AND DROVE INTO A
25	BUILDING. THE AIR BAGS FAILED TO DEPLOY. THE CONTACT SUSTAINED
26	INJURIES THAT REQUIRED MEDICAL ATTENTION THE MANUFACTURER WAS
27	NOTIFIED OF THE FAILURE."
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- 127. GM knew or had reason to know about these complaints, which are publicly available on NHTSA's website. Indeed, many complaints explicitly state that GM was directly informed of and/or investigated these suspicious accidents. For example:
- A complaint about an August 2018 accident in a 2008 GMC Acadia details that the airbags and seatbelt pretensioners did not deploy after the complainant's wife fell asleep at the wheel and struck a utility pole and then a large dirt embankment—which caused her to "hit the steering column so hard . . . it broke the column and broke her sternum," and caused the granddaughter in the passenger seat to break her back in two places. It continues that "GENERAL MOTORS . . . SENT A MAN TO DOWNLOAD THE COMPUTER INFORMATION THEY SENT ME A COPY OF THE INFO AND LATER CONTACTED ME SAYING THE INFO SHOWED EVERYTHING WAS WORKING PROPERLY." NHTSA complaint #11066850.
- After a July 2014 head on collision at 50 MPH where the airbags did not b. deploy in a 2007 Silverado, totaling the vehicle, another driver was "TOLD BY GM THAT CRASH DID NOT MEET CRITERIA FOR DEPLOYMENT." The driver expressed skepticism about this response, and in the complaint, stated "A HEAD ON COLLISION AT 50 MPH THAT TOTALED 2500 SERIES CHEVY TRUCK. HARD FOR ME TO BELIEVE . . . DO I NEED TO [BE] CONCERNED?" NHTSA complaint #10608220.
- Another driver reported on a May 2014 accident in a 2012 GMC Terrain in Moneta, VA. The driver struck "something" head on after veering off the highway and proceeded through trees and brush. They were knocked unconscious after hitting their head on the steering wheel upon the first impact, as the airbags had failed to deploy. They were transported to a hospital by ambulance and spent two days in inpatient care. The driver later "CONTACTED GMC CORPORATE . . . TO ADVISE MY CONCERNS FOR SAFETY . . . RECEIVED A FOLLOW UP TELEPHONE CALL FROM GMC REPRESENTATIVE . . . HE EXPRESSED NO INTEREST IN MY COMPLAINT . . . REFUSED TO COMMENT ON MY STATEMENT THAT AIR BAG FAILED TO DEPLOY RESULTING IN EXTENSIVE DAMAGE TO FRONT OF VEHICLE AND SUSTAINING A HEAD INJURY AS NO BAG DEPLOYED . . . I WAS

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ADVISED THAT GMC HAD NO FURTHER INTEREST IN THIS MATTER AND WOULD NOT EVALUATE MY SAFETY CONCERNS." NHTSA complaint #10588334.

- d. After a July 2012 accident involving a 2012 GMC Terrain in San Clemente, CA, in which the Terrain was hit multiple times in an intersection in the driver's front end, but no airbags deployed, resulting in whiplash and contusions to the driver, a GM representative responded to a complaint lodged by the driver's parents and stated that there was "NO NEED FOR DEPLOYMENT" because it was a "LOW THRESHOLD EVENT." NHTSA complaint #10466384.
- After hitting a patch of black ice at 58 MPH in a Chevrolet Silverado in e. January 2008, another complainant described that they lost control of the vehicle, ran off the road, crashed into a telephone pole and ultimately into a frozen embankment. The airbags did not deploy, causing the driver to hit the steering wheel. As the complainant relates, they "FILED A COMPLAINT WITH THE MANUFACTURER, BUT THE COMPLAINT WAS DENIED. THE MANUFACTURER WAS UNABLE TO DIAGNOSE THE VEHICLE; HOWEVER, AFTER INSPECTION OF THE VEHICLE, THE MANUFACTURER CONFIRMED THAT THE AIR BAGS WERE ENABLED AT THE TIME OF IMPACT. THEY DID NOT GIVE AN EXPLANATION FOR THE DEPLOYMENT FAILURE." NHTSA complaint #10238395.
- f. In a report about a March 2006 accident involving a 2005 Cadillac Escalade in Louisville, KY, the complainant describes that after none of the airbags deployed in a front end collision in their 4-week old vehicle, they "CALLED CADILLAC CUSTOMER SERVICE AND WAS GIVEN AN AIRBAG HISTORY LESSON VIA TELEPHONE FROM SOMEONE THAT HAD NEVER SEEN MY VEHICLE OR INSPECTED IT FOR DAMAGE AFTER THE ACCIDENT. AT THE END OF OUR CONVERSATION I WAS TOLD ALL WAS OK, NONE OF MY AIRBAGS SHOULD HAVE DEPLOYED AND NOT TO WORRY ABOUT IT. THE ENTIRE FRONT END OF MY VEHICLE WAS KNOCKED OFF, THE FRAME HAS MULTIPLE CRACKS AND IS BENT AS A RESULT OF THE COLLISION AND THE COLLISION CENTER IS 90% CERTAIN THE VEHICLE IS NOT REPAIRABLE. *JB" NHTSA complaint #10152376.

1	g. After an August 2004 accident involving a 1999 Chevrolet Astro in
2	Norfolk, VA in which the vehicle jumped a curb, struck a fire hydrant, and then struck a tree
3	without the airbags deploying, the driver was taken by ambulance to the hospital for head and
4	neck injuries. After the accident, the "CONSUMER CONTACTED THE MANUFACTURER
5	AND A REPRESENTATIVE CAME DOWN TO MEET WITH THE DEALER AND
6	CONSUMER. THE REPRESENTATIVE INFORMED CONSUMER THAT THE VEHICLE
7	WAS FUNCTIONING AS DESIGNED." NHTSA complaint # 10087718.
8	h. Another driver contacted GM after the airbags did not deploy in a February
9	2004 front end collision at 25-30 MPH in their 2000 Isuzu Rodeo in Westwood, NJ. "THE
10	CONSUMER CONTACTED THE MANUFACTURER ABOUT THE AIR BAGS BUT THE
11	REPRESENTATIVE DID NOT SEEM TO BE TOO CONCERNED ABOUT THE
12	SITUATION." NHTSA complaint #10087550.
13	i. Another driver described a head on collision at 39 MPH in their 2002
14	Chevrolet Tahoe in which the airbags did not deploy and the seatbelts did not tighten. The driver
15	hit their head on the steering wheel, knocking them unconscious. A readout from the vehicle's
16	computer showed the seatbelts were in working order, and GM responded by sending a
17	representative to inspect the vehicle in person. The complainant was awaiting a response from
18	GM at the time of the report. NHTSA complaint #10353935.
19	128. More than eight hundred similar complaints—i.e., frontal crashes in the Class
20	Vehicles with airbag and seatbelt failures following multiple impacts, or, potentially long-soft
21	frontal impacts—are attached hereto as Exhibit A. ⁵² These accidents are relevant, and suspicious,
22	because they include hallmarks of the SDM Calibration Defect (airbag and seatbelt failures),
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25	The accidents in the preceding paragraph and Exhibit A include data for Class Vehicles in
26	model years 1999-2014. In the interest of efficiency, Plaintiffs have not supplemented the accidents included in Exhibit A from the previously filed version with the first amended
27	complaint, but note that significant numbers of similar consumer reports of multi-impact and front-end impact accidents with airbag and seatbelt failures have continued to accrue in the NHTSA database in model years 1999-2014, as well as later model years, in the time since

Exhibit A was originally prepared in 2021. Plaintiffs are prepared to submit supplemental examples of such incidents at the Court's request.

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under the very crash conditions where it arises, and in the specific population of vehicles Plaintiffs allege to be impacted.

- 129. In addition to these consumer complaints, a separate, public dataset from NHTSA, the Fatality Analysis Reporting System ("FARS") provides a nationwide census of crashes that resulted in fatal injuries. While the complaints outlined above are reported to NHTSA by consumers and can include any type of complaint or incident, FARS data is reported by state agencies responsible for monitoring all qualifying fatal crashes in their states. To be included in FARS data, a crash must involve a motor vehicle traveling on a public road and result in the death of a person in one or more of the vehicles involved in the crash within 30 days of the crash. The dataset collects information on over 100 different data elements that characterize the crash, the vehicles, and the people involved—including whether or not the airbags deployed.
- 130. NHTSA's FARS dataset also reveals a recurring pattern of suspicious nondeployments during frontal crashes (i.e., the crash dynamics that can implicate the SDM Calibration Defect) and reinforces the extremely high stakes of such incidents. From 1999 to present, FARS data reflects at least 1,946 frontal crashes where the airbags did not deploy in a Class Vehicle—1,167 of which occurred in 2009 or later, after New GM was formed. This same data reflects that at least 1,298 individual occupants (drivers or passengers) in a Class Vehicle were injured or killed in these crashes.

D. <u>Despite its knowledge, GM misrepresented and concealed important information about the SDM Calibration Defect and Class Vehicle safety.</u>

- 131. For many consumers, including Plaintiffs, safety is one of the most important factors when buying or leasing a vehicle. GM capitalized on this fact in advertising and other consumer-facing representations about the Class Vehicles and touted the safety of the Class Vehicles in national marketing campaigns.
- 132. In nationwide advertisement campaigns and promotional materials, GM maintained that the Class Vehicles were safe and reliable, and it did not correct representations about the Class Vehicles' safety and reliability made by Old GM in the past. Instead, GM has repeatedly touted the Class Vehicles' passenger safety systems and assured consumers they could

be relied upon to activate the airbags and seatbelts during a crash. These representations are false and misleading because of what they fail to say; GM uniformly failed to disclose that the SDM Calibration Defect could—at the worst possible moment—prevent the airbags and seatbelts from activating.

133. Plaintiffs and Class members, directly or indirectly, were exposed to these advertisements and promotional materials prior to purchasing or leasing their Class Vehicles. The misleading statements about Class Vehicles' safety in GM's advertisements and promotional materials, as well as GM's omission of the truth about the SDM Calibration Defect, influenced Plaintiffs and Class members' decisions to purchase or lease Class Vehicles. If GM had instead chosen to disclose the truth about the SDM Calibration Defect, Plaintiffs and Class members would have seen those disclosures. Indeed, Plaintiffs would have had multiple opportunities to receive information about the SDM Calibration Defect if GM chose to disclose it, including at dealerships, on GM's website, in radio or television advertisements, brochures, press releases or in other promotional materials, as well as in news media reports that would likely follow from the revelation of a serious safety defect in millions of GM vehicles.

1. <u>Labels and window stickers on the Class Vehicles stated that they were equipped with working airbags and seatbelts and failed to disclose the SDM Calibration Defect.</u>

- 134. To sell vehicles in the United States, GM was required to "certify to the distributor or dealer at delivery that the vehicle or equipment complies with applicable motor vehicle safety standards prescribed" by NHTSA under Chapter 301 of Title 49 of the U.S. Code. GM "may not issue the certificate if, in exercising reasonable care," they have "reason to know the certificate is false or misleading in a material respect." 49 U.S.C. § 30115; *see also* 49 U.S.C. § 30112.
- 135. Because "[c]ertification of a vehicle must be shown by a label permanently fixed to the vehicle," all Class Vehicles have a permanent label certifying compliance with the safety regulations prescribed by NHTSA. Since all the Class Vehicles are passenger vehicles, the permanent label must state: "This vehicle conforms to all applicable Federal motor vehicle safety, bumper, and theft prevention standards in effect on the date of manufacture shown above." 49 C.F.R. § 567.4(g)(5).

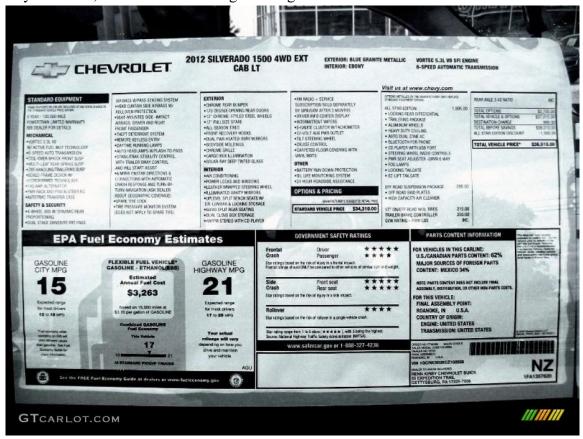
136. These labels were false and misleading because they failed to warn consumers about the risk that the SDM would fail during a frontal crash, and instead indicated that the passenger safety system would function properly. *See* 49 C.F.R. § 571.208 (S4.1.5.4, S4.1.5.5) (Federal motor vehicle safety standards requiring Occupant Restraint Systems with airbags and seatbelts).

- 137. Vehicle manufacturers have a duty to disclose known safety defects to the public and to NHTSA. When a vehicle manufacturer learns of a safety defect, federal law requires it to disclose the defect to NHTSA and to the owners, purchasers, and dealers of the vehicle. 49 U.S.C. § 30118(c). Indeed, GM Parent acknowledges these obligations in its public SEC filings. In its Form 10-K for fiscal year 2019, GM Parent states: "If we or NHTSA determine that either a vehicle or vehicle equipment does not comply with a safety standard or if a vehicle defect creates an unreasonable safety risk, the manufacturer is required to notify owners and provide a remedy."
- 138. The interiors of the Class Vehicles also contain prominent labels that alert the driver and passengers to the vehicle's airbag system. For example, steering wheels and passenger dashboards typically have labels identifying the airbag and safety restraint system (or "SRS").
- 139. GM was also specifically required by law to include in their vehicles warning labels that alerted consumers of the need to perform airbag maintenance. For example, S4.5.1 of 49 C.F.R. § 571.208 states:

Air bag maintenance or replacement information. If the vehicle manufacturer recommends periodic maintenance or replacement of an inflatable restraint system, as that term is defined in S4.1.5.1(b) of this standard, installed in a vehicle, that vehicle shall be labeled with the recommended schedule for maintenance or replacement. The schedule shall be specified by month and year, or in terms of vehicle mileage, or by intervals measured from the date appearing on the vehicle certification label provided pursuant to 49 CFR Part 567. The label shall be permanently affixed to the vehicle within the passenger compartment and lettered in English in block capital and numerals not less than three thirty-seconds of an inch high. This label may be combined with the label required by S4.5.1(b) of this standard to appear on the sun visor.

140. Plaintiffs are unaware of any label in any Class Vehicle that alerted consumers to the SDM Calibration Defect or the need to perform maintenance to protect the SDM from preventing airbag deployment or seatbelt tightening when they are needed.

141. GM also distributed the Class Vehicles with so-called "Monroney" labels (also known as "window stickers") that described the equipment and safety features of the vehicles, including airbags. Dealers sell Class Vehicles to consumers with these labels visible. An image of a Monroney label for the 2012 Silverado is included below as a representative example. In the center of the image, it features a "Five Star" frontal crash rating for drivers. Under "Safety & Security" features, it touts the "dual stage" airbags.



142. Monroney labels for many of the Class Vehicles are available at: https://monroneylabels.com. Additional exemplars of Monroney labels from some of the Class Vehicles are attached as Exhibit B. On information and belief, the original printed Monroney labels for the Class Vehicles included the same content as pertains to safety and airbags as the exemplar Monroney labels from monroneylabels.com.

143. As demonstrated by these examples, Monroney labels uniformly assured consumers that the Class Vehicles had working airbags and seatbelts. This information would have suggested to any reasonable consumer that the passenger safety system did not suffer from a defect and would perform its intended function of activating the seatbelts and airbags when needed during a frontal collision.

2. GM published owners' manuals for the Class Vehicles that detailed their safety features but did not disclose the SDM Calibration Defect.

- 144. GM (and Old GM before it) published owners' manuals for each of the Class Vehicles, and distributed and made them available throughout the United States. These manuals were directed at consumers and included misleading statements regarding seatbelts, airbags, and passenger safety systems. These statements uniformly omitted any warning to consumers that the SDM could effectively shut off during a crash after just 45 milliseconds, or that the airbags and seatbelt pretensioners may not deploy when expected.
- 145. Representative examples of statements from owners' manuals with materially misleading omissions concerning the effectiveness of their airbags follow in the paragraphs below.
- 146. The manual for the 2002 Cadillac Escalade provides extensive detail about the vehicle's airbags, including the below details and images. In addition to explaining the types of airbags and where they are located, the manual specifically alerts consumers that the airbags "are designed to inflate in moderate to severe frontal or near-frontal crashes" where "the impact speed is above the system's designed 'threshold level." As to frontal airbags, it explains that they have been "designed to help reduce the risk of injury from the force of an inflating airbag."

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Supplemental Restraint Systems (SRS)

This part explains the frontal and side impact Supplemental Restraint Systems (SRS) or air bag systems.

Your vehicle has four air bags -- a frontal air bag for the driver, another frontal air bag for the right front passenger, a side impact air bag for the driver, and another side impact air bag for the right front passenger.

Frontal air bags are designed to help reduce the risk of injury from the force of an inflating frontal air bag. But these air bags must inflate very quickly to do their job and comply with federal regulations.

When should an air bag inflate?

The driver's and right front passenger's frontal air bags are designed to inflate in moderate to severe frontal or near-frontal crashes. But they are designed to inflate only if the impact speed is above the system's designed "threshold level."

If your vehicle goes straight into a wall that doesn't move or deform, the threshold level is about 9 to 16 mph (14 to 26 km/h). The threshold level can vary, however, with specific vehicle design, so that it can be somewhat above or below this range.

If your vehicle strikes something that will move or deform, such as a parked car, the threshold level will be higher. The driver's and right front passenger's frontal air bags are not designed to inflate in rollovers, side impacts, or rear impacts, because inflation would not help the occupant.

How the Air Bag Systems Work Where are the air bags?



The driver's frontal air bag is in the middle of the steering wheel.



The right front passenger's frontal air bag is in the instrument panel on the passenger's side.

The driver's side impact air bag is in the side of the driver's seatback closest to the door.

How the Air Bag Systems Work Where are the air bags?



The driver's frontal air bag is in the middle of the steering wheel.



The right front passenger's frontal air bag is in the instrument panel on the passenger's side.

The driver's side impact air bag is in the side of the driver's seatback closest to the door.

When Should an Airbag Inflate?

Frontal airbags are designed to inflate in moderate to severe frontal or near-frontal crashes to help reduce the potential for severe injuries mainly to the driver's or right front passenger's head and chest. However, they are only designed to inflate if the impact exceeds a predetermined deployment threshold. Deployment threshold. Deployment thresholds are used to predict how severe a crash is likely to be in time for the airbags to inflate and help restrain the occupants.

Whether the frontal airbags will or should deploy is not based on how fast your vehicle is traveling. It depends largely on what you hit, the direction of the impact, and how quickly your vehicle slows down.

All of the airbags in the vehicle will have the word AIRBAG embossed in the trim or on an attached label near the deployment opening.

For frontal airbags, the word AIRBAG will appear on the middle part of the steering wheel for the driver and on the instrument panel for the right front passenger.

With seat-mounted side impact airbags, the word AIRBAG will appear on the side of the seatback closest to the door.

With roof-rail airbags, the word AIRBAG will appear along the headliner or trim.

Airbags are designed to supplement the protection provided by safety belts. Even though today's airbags are also designed to help reduce the risk of injury from the force of an inflating bag, all airbags must inflate very quickly to do their job.

Airbag System

The vehicle has the following airbags:

- A frontal airbag for the driver.
- A frontal airbag for the right front passenger.
- A seat-mounted side impact airbag for the driver.
- A seat-mounted side impact airbag for the right front passenger.
- A roof-rail airbag for the driver, passenger seated directly behind the driver, and the third row outboard passenger position.
- A roof-rail airbag for the right front passenger, passenger seated directly behind the right front passenger, and the third row outboard passenger position.
- 147. The manuals for the 2009 Chevy Traverse and 2010 Buick Enclave include similar details and images. Like the manual for the 2002 Cadillac Escalade, they also assure consumers that the vehicle's airbags are "designed to help reduce the risk of injury from the force of an inflating bag" and, thus, that the aggressive deployment problems that plagued first-generation airbags had been alleviated. It also assures that the frontal airbags have been "designed to inflate

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in moderate to severe frontal crashes to help reduce the potential for severe injuries...." It continues that airbag "deployment thresholds are used to predict how severe a crash is likely to be in time for the airbags to inflate and help restrain the occupants." While it provides very specific detail about the way the passenger safety systems should function, the manual notably fails to say that the deployment thresholds are wholly and intentionally ignored just 45 milliseconds into a crash sequence, preventing the airbags and seatbelts from functioning when they need to.

148. The manual for the 2014 GMC Acadia provides additional detail about how the passenger safety system functions. It explains that "Airbags are designed to inflate if the impact exceeds the specific airbag system's deployment thresholds." Yet again, however, the manual does not indicate that the SDM and its sensors are rendered useless in multi-impact crashes that endure for longer than a specific, 45-millisecond time frame.

Where Are the Airbags?



The driver frontal airbag is in the center of the steering wheel.



The front outboard passenger frontal airbag is in the passenger side instrument panel.



If the vehicle has a front center airbag, it is in the inboard side of the driver seatback.

When Should an Airbag Inflate?

This vehicle is equipped with airbags. See Airbag System on page 3-23. Airbags are designed to inflate if the impact exceeds the specific airbag system's deployment threshold. Deployment thresholds are used to predict how severe a crash is likely to be in time for the airbags to inflate and help restrain the occupants. The vehicle has electronic sensors that help the airbag system determine the severity of the impact. Deployment thresholds can vary with specific vehicle design.

Frontal airbags are designed to inflate in moderate to severe frontal or near frontal crashes to help reduce the potential for severe injuries, mainly to the driver's or front outboard passenger's head and chest.

Whether the frontal airbags will or should inflate is not based primarily on how fast the vehicle is traveling. It depends on what is hit, the direction of the impact, and how quickly the vehicle slows down.

Frontal airbags may inflate at different crash speeds depending on whether the vehicle hits an object straight on or at an angle, and whether the object is fixed or moving, rigid or deformable, narrow or wide.

Frontal airbags are not intended to inflate during vehicle rollovers, rear impacts, or many side impacts.

In addition, the vehicle has advanced technology frontal airbags. Advanced technology frontal airbags adjust the restraint according to crash severity.

The front center airbag, if equipped, is designed to inflate in moderate to severe side crashes depending upon the location of the impact, when either side of the vehicle is struck. In addition, the front center airbag is designed to inflate when the sensing system predicts that the vehicle is about to roll over on its

side. The front center airbag is not designed to inflate in frontal impacts, near frontal impacts, or rear impacts.

Seat-mounted side impact airbags are designed to inflate in moderate to severe side crashes depending on the location of the impact. Seat-mounted side impact airbags are not designed to inflate in frontal impacts, near frontal impacts, rollovers, or rear impacts. A seat-mounted side impact airbag is designed to inflate on the side of the vehicle that is struck.

Roof-rail airbags are designed to inflate in moderate to severe side crashes depending on the location of the impact. In addition, these roof-rail airbags are designed to inflate during a rollover or in a severe frontal impact. Roof-rail airbags are not designed to inflate in rear impacts. Both roof-rail airbags will inflate when either side of the vehicle is struck, if the sensing

3. <u>GM marketed the Class Vehicles to be safe and reliable but failed to mention the SDM Calibration Defect.</u>

- 149. Like its other consumer-facing representations, GM's advertisements for the Class Vehicles left out a crucial part of the story. By uniformly omitting any information about the SDM Calibration Defect, GM misled consumers into believing that their airbags and seatbelts would function properly in a crash, despite its knowledge to the contrary.
- 150. A 2013 press release about the 2014 Chevy Silverado 1500, GMC Sierra, and Sierra Denali 1500 is further illustrative of GM's misleading statements about the Class Vehicles. Acknowledging that safety is "as important to truck buyers as it is to car buyers," Gay Kent, GM general director of Vehicle Safety and Crashworthiness, stated that the "Silverado and Sierra set a benchmark for pickup truck safety by offering a full array of advanced features designed to protect occupants before, during and after a collision." The press release noted the vehicle's "[s]ix standard air bags and 360-degree sensor system, including dual-stage frontal air bags, head-curtain side-impact air bags with rollover protect, and front outboard seat-mounted side-impact air bags."
- 151. Brochures and press releases for other Class Vehicles use similar language to send a misleading message of safety. Illustrative examples are listed below.
- a. Beginning with the 1999 Chevy Blazer, GM promised to go "to the ends of the earth to bring you driving security," assuring "peace of mind" with its "mainstay features such as Next Generation driver and right-front-passenger airbags."
- b. "Because safety and security are so important to your family," the brochure for the 2002 Chevy Astro reads, "Astro features a comprehensive system to help you feel secure while you're driving." Among other safety features, "[s]tandard driver and front-passenger air bags . . . [are] designed to give you peace of mind. Chevy Astro. It's the midsize van that's serious about safety and security."
- c. The brochure for the 2006 GMC Yukon promises, "should the worst happen, your Yukon will protect you and your passengers with front and rear crush zones, a sturdy steel safety cage, up to four air bags and a host of other important safety features."

- d. The brochure for the 2008 Buick Enclave explains that "[s]afety and protection were top priorities in the design of the Enclave" and touts the vehicle's "360° perimeter safety system [that] will deploy the appropriate airbags."
- e. Promising "[f]eelings of security and confidence," the brochure for the 2009 Chevy Equinox states the vehicle's "dual-stage frontal and head-curtain side-impact air bags" helped earn it "the highest possible government rating for frontal crash tests five stars."
- f. Declaring that "[s]afety never goes out of style," the brochure for the 2009 Chevy Traverse highlights the vehicle's "five-star frontal and side-impact crash test ratings" and its "six air bags that help protect all three rows of seating."
- g. A press release for the 2009 Cadillac Escalade ESV goes further, proclaiming that the "Escalade is designed to be among the industry's safest and most secure vehicles, with numerous safety systems and crash-avoidance technologies."
- h. "Speaking of safety," the brochure for the 2010 Buick Enclave reads, "Enclave has earned an impressive five-star crash rating for both front and side impacts Five-star rating is for the driver and front passenger seating positions in the frontal crash test and for the front and rear seating positions in the side-impact crash test."
- i. The brochure for the 2010 GMC Terrain describes the vehicle as "the state of the art in air bags" and contends that "[s]egment-best safety is anticipated, with features that include . . . six standard air bags: dual frontal airbags; head curtain side air bags and pelvic/thorax seat-mounted side airbags."
- j. The brochure for the 2010 Silverado assures that the "head of security never goes off the clock," boasting of a "five-star frontal crash test rating," including through its "driver and right-front passenger dual-stage airbags."
- k. A press release for the 2011 Cadillac Escalade Hybrid explains, "[f]rontimage airbags for the driver and passenger have been designed to protect the head during a frontal crash."
- 1. According to the brochure for the 2011 Cadillac SRX, "[p]assenger safety is a primary consideration throughout the engineering process." If an incident occurs, "the SRX

looks out for you and yours," with its "six standard airbags, including advanced, frontal dualstage and seat mounted side-impact airbags for the driver and front-seat passenger, as well as first- and second- row outboard head-curtain airbags."

- m. Describing Buick's "holistic[]" approach to safety, the brochure for the 2012 Enclave proclaims, "Enclave's approach to safety helps you and your companions feel safe and secure before, during and after your travels." Inside the vehicle, "all rows have curtain side-impact air bags with rollover protection, along with driver and front-passenger side-impact and dual-stage airbags."
- n. In a 2013 press release announcing that NHTSA gave "its highest possible 5-star Overall Score" to a number of Chevrolet vehicles, including the Traverse and the Silverado, Kent said "We design safety and crashworthiness into our vehicles very early in development." He continued, "We are committed to offering advanced safety technologies on a broad range of models All of our vehicles are designed to provide continuous protection for customers before, during and after a crash."
- o. A press release for the 2013 Buick Enclave likewise publicized Buick's safety record: "In 2012, every Buick model was named a Top Safety Pick by the Insurance Institute for Highway Safety, underscoring the brand's commitment to safety leadership. The 2013 builds on that distinction with the industry's first front center side air bag a standard feature."
- p. "With head curtain side-impact air bags reaching from the front to the third row of seating for outboard passengers," the 2014 brochure for the GMC Yukon XL reads, "Yukon is engineered to help protect passengers regardless of where they're seated."
- q. Claiming to "set[] the standard . . . in everything from safety to performance," the brochure for the 2014 Cadillac Escalade touts the vehicle's "eight standard airbags," including "[d]ual-stage driver and front passenger, front-impact, Automatic Occupant Sensing System, driver and front passenger seat-mounted side-impact airbags for thorax and pelvic protection and head-curtain side-impact airbags with rollover protection for all outboard passenger rows."

r. The brochure for the 2014 Buick Enclave promises that the vehicle has "your back, front and sides, proclaiming that "in an industry first, the standard driver's seat sidemounted front center air bag adds another layer of protection by providing cushioning between you and your front passenger to help reduce injuries in side impacts." The brochure includes the below picture, indicating that the airbags will function as expected.



152. Based on information and belief, every single Class Vehicle advertisement omitted any mention that the vehicles' airbags and seatbelts could fail in a serious frontal collision due to the SDM Calibration Defect.

4. <u>GM provided warranties to repair defects in the Class Vehicles and have not done so.</u>

- 153. GM also provided Plaintiffs and Class members with an express warranty "to correct any vehicle defect, not slight noise, vibrations, or other normal characteristics of the vehicle related to materials or workmanship" in the Class Vehicles.
- 154. The warranty terms became part of the basis of the bargain when Plaintiffs and Class members purchased or leased their Class Vehicles.
- 155. Plaintiffs and each Class member have had sufficient direct dealings with either Defendants or their agents (including dealerships) to establish privity of contract between Defendants, on the one hand, and Plaintiffs and each Class member, on the other hand, as to the express and implied warranties described in the Claims for Relief below.
- 156. Nonetheless, privity is not required here because Plaintiffs and each Class member are intended third-party beneficiaries of contracts between Defendants and their dealers, and of

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their implied warranties. The dealers were not intended to be the ultimate consumers of the Class Vehicles and have no rights under the warranty agreements provided with the Class Vehicles; the warranty agreements were designed for and intended to benefit consumers only. Finally, privity is also not required because the Class Vehicles are dangerous instrumentalities due to the safety defect in the SDM Calibration.

* * *

157. GM's deceptive actions harmed Plaintiffs and the Class. As a result of GM's unfair, deceptive, and/or fraudulent business practices, and failure to disclose that the Class Vehicles carried a dangerous safety defect that would cause the passenger safety systems to shut off during certain types of accidents, owners and lessees of the Class Vehicles have lost money and/or property.

V. <u>CLASS ACTION ALLEGATIONS</u>

- 158. This case is about GM's legal responsibility for its knowledge, conduct, and products. The proposed Class members' claims all derive directly from a single course of conduct by GM. The objective facts are the same for all Class members. Within each Count asserted by Plaintiffs on behalf of themselves and the proposed Class, the same legal standards govern.
- 159. Accordingly, Plaintiffs bring this lawsuit as a class action on their own behalf, and on behalf of all other persons similarly situated, as members of the proposed Class pursuant to Federal Rules of Civil Procedure 23(a), (b)(2), and/or (b)(3), and/or (c)(4). This action satisfies the numerosity, commonality, typicality, adequacy, predominance, and superiority requirements of those provisions. Certification of Plaintiffs' claims for class-wide treatment is appropriate because Plaintiffs can prove the elements of the claims on a class-wide basis using the same evidence as would be used in individual actions alleging the same claims.

A. The Class Definition

160. The "Class Vehicles" herein include all vehicles in the United States that contain the SDM Calibration Defect that were (1) manufactured, sold, distributed, or leased by Defendants or (2) manufactured, sold, distributed, or leased by Old GM and purchased or leased by Plaintiffs or a Class member after July 10, 2009.

- 161. The SDM Calibration Defect exists in all GM trucks and SUVs starting with model year 1999. This would include, for example, trucks and SUVs such as the Silverado, Tahoe, Astro, and Trailblazer. The information presently available to Plaintiffs shows that, after it was introduced in or about 1999, the calibration defect persisted in GM SUVs through model year 2018. Discovery will reveal when, if ever, GM discontinued use of the SDM Calibration Defect in its trucks and SUVs. This information is uniquely in the Defendants' hands, as only GM (and Delco, n/k/a Aptiv) possess the software calibration files for GM vehicles that will demonstrate the presence of the defect in the software; these files are not downloadable or otherwise accessible from the vehicles themselves, meaning Plaintiffs are unable to obtain those files on their own.
- 162. The proposed Class includes all persons and entities that purchased or leased a Class Vehicle in the state of California.
 - 163. Excluded from the Class are:
- a. Defendants' officers, directors and employees; Defendants' affiliates and affiliates' officers, directors, and employees; Defendants' distributors and distributors' officers, directors, and employees; and
- b. Judicial officers and their immediate family members and associated court staff assigned to this case.
- 164. Certification of Plaintiffs' claims for class-wide treatment is appropriate because Plaintiffs can prove the elements of their claims on a class-wide basis using the same evidence as would be used in individual actions alleging the same claims.
- 165. Plaintiffs reserve the right to amend the Class definitions if discovery and further investigation reveal that any Class should be expanded, reduced, divided into additional subclasses under Rule 23(c)(5), or otherwise modified.

B. Numerosity: Federal Rule of Civil Procedure 23(a)(1)

166. The members of the Class are so numerous and geographically dispersed that individual joinder of all Class members is impracticable. There are millions of Class Vehicles nationwide, a significant number of which are in the state of California. The precise number and

identities of the California Class members may be ascertained from Defendants' records and motor vehicle regulatory data. Class members may be notified of the pendency of this action by recognized, Court-approved notice dissemination methods.

C. Commonality and Predominance: Federal Rule of Civil Procedure 23(a)(2) and 23(b)(3)

- 167. This action involves common questions of law and fact, which predominate over any questions affecting individual Class members. These include, without limitation, the following:
- a. Whether the Class Vehicles' SDM software calibration is defective, as described herein;
- b. Whether Defendants knew, or should have known, about the SDM Calibration Defect, and, if so, how long they have or should have known about it;
- c. Whether Defendants had a duty to disclose the defective nature of the Class
 Vehicles to Plaintiffs and Class members;
- d. Whether Defendants' concealment of the SDM Calibration Defect caused Plaintiffs and Class members to act to their detriment by purchasing or leasing the Class Vehicles;
- e. Whether Defendants' certifications concerning vehicle safety were misleading considering the risk that the SDMs will not trigger airbags and seatbelts during certain types of collisions;
- f. Whether Defendants' conduct tolls any or all applicable limitations periods by acts of fraudulent concealment, application of the discovery rule, or equitable estoppel;
 - g. Whether Defendants misrepresented that the Class Vehicles were safe;
 - h. Whether Defendants concealed the SDM Calibration Defect;
- i. Whether Defendants' statements, concealments, and omissions regarding the Class Vehicles were material, in that a reasonable consumer could consider them important in purchasing, leasing, selling, maintaining, or operating such vehicles;

- j. Whether Defendants engaged in unfair, deceptive, unlawful, and/or fraudulent acts or practices, in trade or commerce, by failing to disclose that the Class Vehicles were designed, manufactured, sold, and leased with defective airbag components;
- k. Whether the Class Vehicles were unfit for the ordinary purposes for which they were used, in violation of the implied warranty of merchantability;
- 1. Whether Defendants' concealment of the true defective nature of the Class Vehicles caused their market price to incorporate a premium reflecting the assumption by consumers that the Class Vehicles were equipped with fully functional passenger safety systems and, if so, the market value of that premium; and
- m. Whether Plaintiffs and the other Class members are entitled to damages and other monetary relief and, if so, in what amount.

D. <u>Typicality: Federal Rule of Civil Procedure 23(a)(3)</u>

168. Plaintiffs' claims are typical of the claims of Class members whom they seek to represent under Fed. R. Civ. P. 23(a)(3), because Plaintiffs and each Class member purchased or leased a Class Vehicle and were comparably injured through Defendants' wrongful conduct as described above. Plaintiffs and the other Class members suffered damages as a direct proximate result of the same wrongful practices by Defendants. Plaintiffs' claims arise from the same practices and courses of conduct that give rise to the claims of the other Class members. Plaintiffs' claims are based upon the same legal theories as the claims of the other Class members.

E. Adequacy: Federal Rule of Civil Procedure 23(a)(4)

169. Plaintiffs will fairly and adequately represent and protect the interests of the Class members as required by Fed. R. Civ. P. 23(a)(4). Plaintiffs' interests do not conflict with the interests of the Class members. Plaintiffs have retained counsel competent and experienced in complex class action litigation, including automobile defect litigation and other consumer protection litigation. Plaintiffs intend to prosecute this action vigorously. Neither Plaintiffs nor their counsel have interests that conflict with the interests of the other Class members. Therefore, the interests of the Class members will be fairly and adequately protected.

F. <u>Declaratory and Injunctive Relief: Federal Rule of Civil Procedure 23(b)(2)</u>

170. Defendants have acted or refused to act on grounds generally applicable to Plaintiffs and the other members of the Class, thereby making appropriate final injunctive relief and declaratory relief, as described below, with respect to the Class as a whole.

G. Superiority: Federal Rule of Civil Procedure 23(b)(3)

- 171. A class action is superior to any other available means for the fair and efficient adjudication of this controversy, and no unusual difficulties are likely to be encountered in its management. The damages or other financial detriment suffered by Plaintiffs and the other Class members are relatively small compared to the burden and expense that would be required to individually litigate their claims against Defendants such that it would be impracticable for members of the Class to individually seek redress for Defendants' wrongful conduct.
- 172. Even if Class members could afford individual litigation, the court system could not. Individualized litigation creates a potential for inconsistent or contradictory judgments and increases the delay and expense to all parties and the court system. By contrast, the class action device presents far fewer management difficulties and provides the benefits of single adjudication, economy of scale, and comprehensive supervision by a single court.

VI. ANY APPLICABLE STATUTES OF LIMITATION ARE TOLLED

- 173. Defendants have known of the SDM Calibration Defect since at least 2009, when GM learned, through books, records, and personnel, that Old GM had launched the defective calibration strategy despite clear warnings of the risk of doing so, and then continued to use that defective software strategy thereafter. They obtained further knowledge of the risks of the SDM Calibration Defect from lawsuits and multiple suspicious accidents (involving airbag and seatbelt failures in frontal accidents) occurring in practically every year since, which provided additional and confirmatory notice of the continued risks of the SDM Calibration Defect.
- 174. GM had a duty to disclose the SDM Calibration Defect to consumers and NHTSA. Instead, GM knowingly, affirmatively, and actively concealed the defect from regulators and consumers by continuing to distribute, sell, and/or lease the Class Vehicles to Plaintiffs and the

Class members; to advertise the safety of the Class Vehicles; and to fail to notify regulators or Plaintiffs and the Class members about the true nature of the Class Vehicles.

- 175. As of the date of this Complaint, GM still has not disclosed, and continues to conceal, that the Class Vehicles are defective, that the SDM Calibration Defect could prevent the airbags and seatbelts from activating during certain kinds of frontal collisions, and that these Class Vehicles' safety systems may fail them in life-threatening collisions. Despite its knowledge of the SDM Calibration Defect and its attendant safety risks, GM continues to market the Class Vehicles based on superior safety and reliability while omitting the disclosure safety and reliability risks associated with the SDM Calibration Defect.
- 176. Plaintiffs and members of the proposed Class could not have discovered through the exercise of reasonable diligence that GM was concealing the SDM Calibration Defect in their vehicles and misrepresenting the defective nature of the Class Vehicles.
- 177. With respect to Class Vehicles that have not experienced airbags or seatbelt failure, Plaintiffs and other Class members did not discover, could not reasonably have discovered, and had no reason to suspect that their Class Vehicles are defective, that GM calibrated the software program that controls the SDM to prevent airbag and seatbelt deployment just 45 milliseconds after a crash has begun, that—in affirmatively blocking these critical safety features after 45 milliseconds—GM significantly and unnecessarily increased the risk of injury and death in frontal crashes, that the safety of their Class Vehicles is impaired by this defect such that the Class Vehicles' safety system may fail them in potentially deadly collisions, or that, as a result of the foregoing, they overpaid for their vehicles, and/or the value of their vehicles is diminished.
- 178. With respect to Class Vehicles that have experienced airbag and/or seatbelt failure prior to the filing of this Complaint, Class members did not discover and could not reasonably have discovered that such failure was due to a defect known to GM through a dangerous and defective SDM software calibration.
- 179. Plaintiffs and other Class members did not discover, and did not know of, facts that would have caused a reasonable person to suspect that GM did not report this material

a reasonable and diligent investigation have disclosed that GM was aware of the defective nature of the SDM software calibration and the Class Vehicles in which it was incorporated.

180. Due to the highly technical nature of the SDM Calibration Defect, Plaintiffs and Class members were unable to independently discover it using reasonable diligence. Absent

information within their knowledge to consumers, dealerships, or relevant authorities; nor would

Class members were unable to independently discover it using reasonable diligence. Absent counsel and third-party consultants with relevant expertise, Plaintiffs and Class members lack the necessary expertise to analyze the software algorithm for the SDMs, or vehicle safety system performance in and accident, and to understand its defective nature. GM has not issued a recall or issued other similar public statements about the SDM Calibration Defect, and Plaintiffs first learned of the defective nature of the SDM software calibration in their vehicles, and of GM's scheme to design and sell vehicles with defective SDM software calibrations, only in connection with retaining counsel and filing this lawsuit in 2021 (for Plaintiff Vargas and Milstead). Plaintiff Ray learned of the SDM Calibration Defect in connection with retention of counsel in late 2020, and was also aware of the pendency of this putative class action before filing his claims in this pleading.

181. For the foregoing reasons, GM is estopped from relying on any statutes of limitation or repose as a defense in this action. All applicable statutes of limitation and repose have been tolled by operation of the discovery rule and by GM's fraudulent concealment with respect to all claims against GM.

VII. CAUSES OF ACTION

COUNT I: FRAUD BY CONCEALMENT (Common Law)

- 182. Plaintiffs re-allege and incorporate by reference all paragraphs as though fully set forth herein.
- 183. Plaintiffs bring this claim against all Defendants on behalf of themselves and the California State Class under the common law of fraudulent concealment.

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e.g., Restatement (Second) of Torts §§ 550-51 (1977).

185. Defendants intentionally and knowingly concealed and suppressed material facts from regulators and consumers regarding the SDM Calibration Defect that causes the airbags and seatbelts to fail in prolonged onset, complex, or otherwise multi-impact accidents, causing a serious risk of injury or death.

Defendants are liable for both fraudulent concealment and non-disclosure. See,

- 186. A reasonable consumer would not have expected that the Class Vehicles contained a software program that was calibrated to prevent seatbelt tightening and airbag deployment during certain types of frontal crashes. Defendants knew that reasonable consumers expect that their vehicle has working airbags and seatbelt pretensioners and would rely on those facts in deciding whether to purchase, lease, or retain a new or used motor vehicle. Whether a manufacturer's products are safe and reliable, and whether that manufacturer stands behind its products, are material concerns to a consumer.
- 187. Defendants ensured that Plaintiffs and the Class did not discover this information by actively concealing and misrepresenting the true nature of the Class Vehicles' safety systems. Defendants intended for Plaintiffs and the Class to rely on their omissions—which they did by purchasing and leasing the Class Vehicles at the prices they paid.
 - 188. Defendants had a duty to disclose the SDM Calibration Defect because:
- a. GM had exclusive and/or far superior knowledge and access to the facts about this hidden and complex safety defect. Defendants also knew that these technical facts were not known to or reasonably discoverable by Plaintiffs and the Class; GM knew the SDM Calibration Defect (and its safety risks) was a material fact that would affect Plaintiffs' or Class members' decisions to buy or lease Class Vehicles; GM is subject to statutory duties to disclose known safety defects to consumers and to NHTSA; and GM made incomplete representations about the safety and reliability of the Class Vehicles and their passenger safety systems, while purposefully withholding material facts about a known safety defect. In uniform advertising and materials provided with each Class Vehicle, Defendants intentionally concealed, suppressed, and failed to disclose to Plaintiffs and the Class that the Class Vehicles contained the dangerous SDM

Calibration Defect. Because they volunteered to provide information about the Class Vehicles that they offered for sale to Plaintiffs and the Class, Defendants had the duty to disclose the whole truth. They did not.

- 189. To this day, Defendants have not made full and adequate disclosure and continue to conceal material information regarding the SDM Calibration Defect. The omitted and concealed facts were material because a reasonable person would find them important in purchasing, leasing, or retaining a new or used motor vehicle, and because they directly impact the value of the Class Vehicles purchased or leased by Plaintiffs and the Class.
- 190. Defendants actively concealed or suppressed these material facts, in whole or in part, to maintain a market for their vehicles, to protect profits, and to avoid costly recalls that would hurt the GM brand's image. They did so at the expense of Plaintiffs and the Class. Had they been aware of the SDM Calibration Defect in the Class Vehicles, and Defendants' callous disregard for safety, Plaintiffs and the Class either would not have paid as much as they did for their Class Vehicles, or they would not have purchased or leased them.
- 191. Accordingly, Defendants are liable to Plaintiffs and the Class for their damages in an amount to be proven at trial, including, but not limited to, their lost overpayment for the Class Vehicles at the time of purchase or lease.
- 192. Defendants' acts were done maliciously, oppressively, deliberately, with intent to defraud; in reckless disregard of Plaintiffs' and the Class' rights and well-being; and to enrich themselves. Their misconduct warrants an assessment of punitive damages in an amount sufficient to deter such conduct in the future, which amount shall be determined according to proof at trial.

COUNT II: UNJUST ENRICHMENT (Common Law)

- 193. Plaintiffs re-allege and incorporate by reference all paragraphs as though fully set forth herein.
- 194. Plaintiffs Richard Vargas and Arthur Ray assert this Unjust Enrichment count on behalf of themselves and the California State Class.

- 195. By reason of their conduct, Defendants caused damages to Plaintiffs and Class members. Plaintiffs and Class members conferred a benefit on the Defendants by overpaying for Class Vehicles at prices that were artificially inflated by Defendants' concealment of the SDM Calibration Defect and misrepresentations regarding the Class Vehicles' safety.
- 196. As a result of Defendants' fraud and deception, Plaintiffs and Class members were not aware of the true facts concerning the Class Vehicles and did not benefit from the Defendants' misconduct.
- 197. Defendants knowingly benefitted from their unjust conduct. They sold and leased Class Vehicles equipped with the SDM Calibration Defect for more than what the vehicles were worth, at the expense of Plaintiffs and Class members.
- 198. Defendants readily accepted and retained these benefits from Plaintiffs and Class members.
- 199. It is inequitable and unconscionable for Defendants to retain these benefits because they misrepresented that the Class Vehicles were safe, and intentionally concealed, suppressed, and failed to disclose the SDM Calibration Defect to consumers. Plaintiffs and Class members would not have purchased or leased the Class Vehicles or would have paid less for them, had Defendants not concealed the SDM Calibration Defect.
 - 200. Plaintiffs and Class members do not have an adequate remedy at law.
- 201. Equity cannot in good conscience permit the Defendants to retain the benefits that they derived from Plaintiffs and Class members through unjust and unlawful acts, and therefore restitution or disgorgement of the amount of the Defendants' unjust enrichment is necessary.

COUNT III:

Violation of California Consumers Legal Remedies Act Cal. Civ. Code § 1750, et seq.

- 202. Plaintiffs re-allege and incorporate by reference all preceding allegations as though fully set forth herein.
- 203. Plaintiffs bring this claim on behalf of themselves and the California State Class against the Defendants.

the Class Vehicles, which they had a duty to disclose. Defendants had a duty to disclose the defect because, as detailed above: (a) Defendants knew about the defect in the SDM software calibration in the Class Vehicles; (b) Defendants had exclusive knowledge of material facts not known to the general public or the other California State Class members; (c) Defendants actively concealed material facts concerning the software calibration from the general public and Plaintiffs and California State Class members; and (d) Defendants made partial representations about the Class Vehicles that were misleading because they did not disclose the full truth.

- 211. Defendants' unfair or deceptive acts or practices, including their misrepresentations, concealments, omissions, and/or suppressions of material facts, had a tendency or capacity to mislead and create a false impression in consumers, and were likely to and did in fact deceive reasonable consumers, including Plaintiffs and California State Class members, about the true safety and reliability of Class Vehicles, the quality of the Class Vehicles, and the true value of the Class Vehicles.
- 212. Plaintiffs and the other California State Class members have suffered injury in fact and actual damages resulting from Defendants' material omissions.
- 213. Defendants' violations present a continuing risk to Plaintiffs and California State Class members, as well as to the general public, and therefore affect the public interest.
- 214. Defendants are on notice of the issues raised in this count and this Complaint by way of, among other things, the individual personal injury litigation and hundreds of public consumer complaints detailed above, as well as their own intrinsic knowledge of defect they have included in the Class Vehicles by design. Plaintiffs also sent a notice letter to Defendants in accordance with Cal. Civ. Code § 1782(a) of the CLRA, notifying Defendants of their alleged violations of Cal. Civ. Code § 1770(a) and demanding that Defendants correct or agree to correct the actions described therein within thirty (30) days of the notice letter. Defendants did not correct or agree to correct their actions within thirty days, and Plaintiffs therefore seek compensatory and monetary damages to which Plaintiffs and California Class Members are entitled under the CLRA.

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215. Attached hereto as Exhibit C is the venue affidavit required by CLRA, Cal. Civ. Code § 1780(d).

COUNT IV:

Violations of the California Unfair Competition Law Cal. Bus. & Prof. Code § 17200, et seq.

- 216. Plaintiffs re-allege and incorporate by reference all preceding allegations as though fully set forth herein.
- 217. Plaintiffs bring this claim on behalf of themselves and the California State Class against the Defendants.
- 218. The California Unfair Competition Law ("UCL"), Cal. Bus. and Prof. Code § 17200, prohibits any "unlawful, unfair, or fraudulent business act or practices."
- 219. Defendants' knowing and intentional conduct described in this Complaint constitutes unlawful, fraudulent, and unfair business acts and practices in violation of the UCL. Specifically, Defendants' conduct is unlawful, fraudulent, and unfair in at least the following ways:
- a. by knowingly and intentionally concealing from Plaintiffs and California State Class members that the Class Vehicles suffer from the SDM Calibration Defect while obtaining money from the California State Class members;
- b. by marketing Class Vehicles as possessing a functional, safe, and defectfree passenger safety system;
- c. by purposefully designing and manufacturing the Class Vehicles to contain a defective SDM software calibration that causes airbags and seatbelts to fail in certain accidents contrary to what was disclosed to regulators and represented to consumers who purchased or leased Class Vehicles, and failing to fix the SDM Calibration Defect free of charge; and
- d. by violating the other California laws alleged herein, including the False Advertising Law, Consumers Legal Remedies Act, California Commercial Code, and Song-Beverly Consumer Warranty Act.

220. Defendants' misrepresentations, omissions, and concealment were material to the California Plaintiffs and California State Class members, and Defendants misrepresented, concealed, or failed to disclose the truth with the intention that consumers would rely on the misrepresentations, concealment, and omissions.

- 221. Defendants' material misrepresentations and omissions alleged herein caused Plaintiffs and the California State Class members to make their purchases or leases of their Class Vehicles. Absent those misrepresentations and omissions, Plaintiffs and California State Class members would not have purchased or leased these vehicles or would not have purchased or leased these Class Vehicles at the prices they paid.
- 222. Accordingly, Plaintiffs and California State Class members have suffered ascertainable loss and actual damages as a direct and proximate result of Defendants' misrepresentations and their concealment of and failure to disclose material information.
- 223. Defendants' violations present a continuing risk to Plaintiffs and California State Class members, as well as to the general public. Defendants' unlawful acts and practices complained of herein affect the public interest.
- 224. Plaintiffs request that this Court enter an order enjoining Defendants from continuing their unfair, unlawful, and/or deceptive practices and restoring to members of the California State Class any money Defendants acquired by unfair competition, including restitution and/or restitutionary disgorgement, as provided in Cal. Bus. & Prof. Code § 17203 and Cal. Bus. & Prof. Code § 3345, and for such other relief set forth below.

COUNT V:

Violations of the California False Advertising Law Cal. Bus. & Prof. Code § 17500, et seq.

- 225. Plaintiffs re-allege and incorporate by reference all preceding allegations as though fully set forth herein.
- 226. Plaintiffs bring this claim on behalf of themselves and the California State Class against the Defendants.

- 227. The California False Advertising Law ("FAL"), Cal. Bus. & Prof. Code § 17500, prohibits false advertising.
- 228. Defendants, Plaintiffs, and California State Class members are "persons" within the meaning of Cal. Bus. & Prof. Code § 17506.
- 229. Defendants violated the FAL by causing to be made or disseminated through California and the United States, through advertising, marketing and other publications, statements regarding the safety of the Class Vehicles that were untrue or misleading, and which were known, or which by the exercise of reasonable care should have been known to Defendants, to be untrue and misleading to consumers, including California State Class members. Numerous examples of these statements and advertisements appear in the preceding paragraphs throughout this Complaint and in Exhibit B.
- 230. The misrepresentations and omissions regarding the reliability and safety of Class Vehicles as set forth in this Complaint were material and had a tendency or capacity to mislead and create a false impression in consumers, and were likely to and did in fact deceive reasonable consumers, including Plaintiffs and California State Class members, about the true safety and reliability of Class Vehicles, the quality of the Defendants' brands, and the true value of the Class Vehicles.
- 231. In purchasing or leasing their Class Vehicles, the California State Class members relied on the misrepresentations and/or omissions of Defendants with respect to the safety and reliability of the Class Vehicles. Defendants' representations turned out not to be true because the Class Vehicles are distributed with a dangerous safety defect, rendering the vehicles' airbags and seatbelts inoperative in certain types of accidents.
- 232. Plaintiffs and the other California State Class members have suffered an injury in fact, including the loss of money or property, as a result of Defendants' unfair, unlawful, and/or deceptive practices. Had they known the truth, Plaintiffs and California State Class members would not have purchased or leased the Class Vehicles or would have paid significantly less for them.

233. Plaintiffs and California State Class members had no way of discerning that Defendants' representations were false and misleading, or otherwise learning the facts that Defendants had concealed or failed to disclose. Plaintiffs and California State Class members did not, and could not, unravel Defendants' deception on their own.

- 234. Defendants had an ongoing duty to Plaintiffs and California State Class members to refrain from unfair or deceptive practices under the California False Advertising Law in the course of their business. Specifically, the Defendants owed Plaintiffs and California State Class members a duty to disclose all the material facts concerning the SDM Calibration Defect in the Class Vehicles because they possessed exclusive knowledge, they intentionally concealed the defect from Plaintiffs and California State Class members, and/or they made misrepresentations that were misleading because they were contradicted by withheld facts.
- 235. All of the wrongful conduct alleged herein occurred, and continues to occur, in the conduct of Defendants' business. Defendants' wrongful conduct is part of a pattern or generalized course of conduct that is still perpetuated and repeated, both in the State of California and nationwide.
- 236. Defendants' violations present a continuing risk to Plaintiffs and California State Class members, as well as to the general public. Defendants' unlawful acts and practices complained of herein affect the public interest.
- 237. Plaintiffs request that this Court enter an order enjoining Defendants from continuing their unfair, unlawful, and/or deceptive practices and restoring to the California State Class any money Defendants acquired by unfair competition, including restitution and/or restitutionary disgorgement, and for such other relief set forth below.

COUNT VI: Breach of Express Warranty Cal. Com. Code §§ 2313 and 10210

238. Plaintiffs re-allege and incorporate by reference all preceding allegations as though fully set forth herein.

- 239. Plaintiff Richard Vargas brings this claim on behalf of himself and the California State Class against the Defendants.
- 240. Defendants are and were at all relevant times "merchant[s]" with respect to motor vehicles under Cal. Com. Code §§ 2104(1) and 10103(c), and "sellers" of motor vehicles under § 2103(1)(d).
- 241. With respect to leases, Defendants are and were at all relevant times "lessors" of motor vehicles under Cal. Com. Code § 10103(a)(16).
- 242. All California State Class members who purchased Class Vehicles in California are "buyers" within the meaning of Cal. Com. Code § 2103(1)(a).
- 243. All California State Class members who leased Class Vehicles in the California are "lessees" within the meaning of Cal. Com. Code § 10103(a)(14).
- 244. The Class Vehicles are and were at all relevant times "goods" within the meaning of Cal. Com. Code §§ 2105(1) and 10103(a)(8).
- 245. In connection with the purchase or lease of Class Vehicles, Defendants provided Plaintiffs and California State Class members with written express warranties covering the repair or replacement of components that are defective in materials or workmanship.
- 246. Defendants' warranties formed the basis of the bargain that was reached when Plaintiffs and California State Class members unknowingly purchased or leased Class Vehicles that came equipped with the SDM Calibration Defect.
- 247. However, Defendants knew or should have known that the warranties were false and/or misleading. Specifically, Defendants were aware of the SDM Calibration Defect in the Class Vehicles, which made the vehicles inherently defective and dangerous at the time that they were sold and leased to Plaintiffs and California State Class members.
- 248. Plaintiff and California State Class members reasonably relied on Defendants' express warranties when purchasing or leasing their Class Vehicles.
- 249. Defendants knowingly breached their express warranties to repair defects in materials and workmanship by failing to repair the SDM Calibration Defect in the Class Vehicles.

Defendants also breached their express warranties by providing a product containing defects that were never disclosed to Plaintiff and California State Class members.

- 250. On January 27, 2023, Plaintiff Vargas presented his Class Vehicle and requested a repair for the SDM Calibration Defect under the vehicle's warranty at Anderson Chevrolet, an authorized GM dealership in Lake Elsinore, California. In response, dealership personnel informed Mr. Vargas that there were no open recalls for the SDM software in his vehicle, and thus they would not provide a repair for the SDM Calibration Defect. Based on this refusal, Mr. Vargas left the dealership without obtaining a repair for the SDM Calibration Defect under his warranty.
- 251. Defendants were on reasonable notice of these issues and an opportunity to cure the breaches due to Mr. Vargas' request for a repair at the dealership, as well as their extensive knowledge of the SDM Calibration Defect, as detailed herein. Defendants have not cured the breaches of their warranties despite years of knowledge of those breaches.
- 252. As a direct and proximate result of Defendants' breach of express warranties, Plaintiff and California State Class members have been damaged in an amount to be proven at trial.

COUNT VII: Breach of Implied Warranty of Merchantability Cal. Com. Code §§ 2314 and 10212

- 253. Plaintiffs re-allege and incorporate by reference all preceding allegations as though fully set forth herein.
- 254. Plaintiffs bring this claim on behalf of themselves and the California State Class against the Defendants.
- 255. Defendants are and were at all relevant times "merchant[s]" with respect to motor vehicles under Cal. Com. Code §§ 2104(1) and 10103(c), and "sellers" of motor vehicles under § 2103(1)(d).
- 256. With respect to leases, Defendants are and were at all relevant times "lessors" of motor vehicles under Cal. Com. Code § 10103(a)(16).

1	257. All California State Class members who purchased Class Vehicles in California
2	are "buyers" within the meaning of Cal. Com. Code § 2103(1)(a).
3	258. All California State Class members who leased Class Vehicles in the California
4	are "lessees" within the meaning of Cal. Com. Code § 10103(a)(14).
5	259. The Class Vehicles are and were at all relevant times "goods" within the meaning
6	of Cal. Com. Code §§ 2105(1) and 10103(a)(8).
7	260. A warranty that the Class Vehicles were in merchantable condition and fit for the
8	ordinary purpose for which vehicles are used is implied by law pursuant to Cal. Com. Code
9	§§ 2314 and 10212.
10	261. The Class Vehicles did not comply with the implied warranty of merchantability
11	because, at the time of sale and at all times thereafter, they were defective and not in
12	merchantable condition, would not pass without objection in the trade, and were not fit for the
13	ordinary purpose for which vehicles were used. Specifically, the Class Vehicles suffer from the
14	SDM Calibration Defect, which may cause the airbags and seatbelt to fail to deploy during an
15	accident, rendering the Class Vehicles inherently defective and dangerous.
16	262. Defendants were on reasonable notice of these issues and an opportunity to cure
17	the breaches due to their extensive knowledge of the SDM Calibration Defect, as detailed herein.
18	Defendants have not cured the breaches of their warranties despite years of knowledge of those
19	breaches.
20	263. As a direct and proximate result of Defendants' breach of the implied warranty of
21	merchantability, Plaintiffs and California State Class members have been damaged in an amount
22	to be proven at trial.
23	COUNT VIII:
24	Violation of Song-Beverly Consumer Warranty Act, Breach of Implied Warranty
25	Cal Civ. Code § 1790, et seq.
26	264. Plaintiffs re-allege and incorporate by reference all preceding allegations as though
27	fully set forth herein.
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- 265. Plaintiffs bring this claim on behalf of themselves and the California State Class against the Defendants.
- 266. All California State Class members who purchased Class Vehicles in California are "buyers" within the meaning of Cal. Civ. Code § 1791(b).
- 267. All California State Class members who leased Class Vehicles in California are 'lessors' within the meaning of Cal. Civ. Code § 1791(h).
- 268. The Class Vehicles are "consumer goods" within the meaning of Cal. Civ. Code § 1791(a).
- 269. Defendants are the "manufacturer[s]" of the Class Vehicles within the meaning of Cal. Civ. Code § 1791(j).
- 270. Defendants impliedly warranted to Plaintiffs and the other members of the California State Class that the Class Vehicles were "merchantable" within the meaning of Cal. Civ. Code §§ 1791.1(a) & 1792; however, the Class Vehicles do not have the quality that a buyer would reasonably expect.
- 271. The Class Vehicles would not pass without objection in the automotive trade due to the SDM Calibration Defect. Because the Class Vehicles contain defective SDMs, the Class Vehicles are not in merchantable condition and thus not fit for ordinary purposes.
- 272. The Class Vehicles are not adequately labeled because the labeling fails to disclose the SDM Calibration Defect. The Class Vehicles do not conform to the promises and affirmations made by the Defendants regarding safety.
- 273. The Defendants' breach of the implied warranty of merchantability caused damage to Plaintiff Vargas and California State Class members who purchased or leased the defective Class Vehicles. The amount of damages due will be proven at trial.
- 274. Pursuant to Cal. Civ. Code §§ 1791.1(d) and 1794, Plaintiffs and California State Class members seek an order enjoining Defendants' unfair and/or deceptive acts or practices, damages, punitive damages, and any other just and proper relief available under the Song-Beverly Consumer Warranty Act.

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COUNT IX:

Violation of the Song-Beverly Consumer Protection Act, Breach of Express Warranty Cal Civ. Code § 1790, et seq.

- 275. Plaintiffs re-allege and incorporate by reference all preceding allegations as though fully set forth herein.
- 276. Plaintiff Vargas brings this claim on behalf of himself and the California State Class against the Defendants.
- 277. All California State Class members who purchased Class Vehicles in California are "buyers" within the meaning of Cal. Civ. Code § 1791(b).
- 278. All California State Class members who leased Class Vehicles in California are "lessors" within the meaning of Cal. Civ. Code § 1791(h).
- 279. The Class Vehicles are "consumer goods" within the meaning of Cal. Civ. Code § 1791(a).
- 280. Defendants are "manufacturer[s]" of the Class Vehicles within the meaning of California Civil Code § 1791(j).
- 281. Defendants are and were at all relevant times "sellers" of motor vehicles under Cal. Civ. Code § 1791(l).
- 282. With respect to leases, Defendants are and were at all relevant times "lessors" of motor vehicles under Cal. Civ. Code § 1791(i).
- 283. Defendants made express warranties to members of the California State Class within the meaning of California Civil Code §§ 1791.2 and 1793.2.
- 284. In connection with the purchase or lease of Class Vehicles, Defendants provided Plaintiff and California State Class members with written express warranties covering the repair or replacement of components that are defective in materials or workmanship.
- 285. Defendants' warranties formed the basis of the bargain that was reached when Plaintiff and California State Class members unknowingly purchased or leased their Class Vehicles equipped with the SDM Calibration Defect.

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- 286. However, Defendants knew or should have known that their warranties were false and misleading. Specifically, Defendants were aware of the SDM Calibration Defect in the Class Vehicles which made the vehicles inherently defective and dangerous at the time that they were sold and leased to Plaintiff and California State Class members.
- 287. Plaintiff and California State Class members reasonably relied on Defendants' express warranties when purchasing or leasing the California Class Vehicles.
- 288. Defendants knowingly breached their express warranties to repair defects in materials and workmanship by failing to repair the SDM Calibration Defect in the Class Vehicles. Defendants also breached their express warranties by providing a product containing defects that were never disclosed to Plaintiff and California State Class members.
- Defendants were on reasonable notice of these issues and an opportunity to cure the breaches due to their extensive knowledge of the SDM Defect, as detailed herein. Defendants have not cured the breaches of their warranties despite years of knowledge of those breaches, as detailed herein.
- 290. As a result of Defendants' breach of their express warranties, members of the California State Class received goods whose defect substantially impairs their value to Plaintiffs and the other members of the California State Class. Plaintiffs and members of the California State Class have been damaged as a result of, inter alia, the diminished value of Defendants' products.
- 291. Pursuant to California Civil Code §§ 1793.2 & 1794, Plaintiffs and members of the California State Class are entitled to damages and other legal and equitable relief including, at their election, the purchase price of their Class Vehicles, or the overpayment or diminution in value of their Class Vehicles.
- Pursuant to California Civil Code § 1794, the Class is entitled to costs and 292. attorneys' fees.

VIII. PRAYER FOR RELIEF

Plaintiffs, on behalf of themselves and all others similarly situated, request for the Court to enter judgment against the Defendants, as follows:

1	a. An order certifying the proposed Class, designating Plaintiffs as the named
2	representatives of the Class, designating the undersigned as Class Counsel, and making such
3	further orders for the protection of Class members as the Court deems appropriate, under Fed. R.
4	Civ. P. 23;
5	b. An order enjoining the Defendants to desist from further deceptive
6	distribution, sales, and lease practices with respect to the Class Vehicles and such other injunctive
7	relief that the Court deems just and proper;
8	c. An award to Plaintiffs and Class Members of compensatory, exemplary,
9	and punitive remedies and damages and statutory penalties, including interest, in an amount to be
10	proven at trial;
11	d. A declaration that Defendants are financially responsible for all Class
12	notice and the administration of Class relief;
13	e. Costs, restitution, and compensatory damages for economic loss and out-
14	of-pocket costs, multiple damages under applicable states' laws; punitive and exemplary damages
15	under applicable law; and disgorgement, in an amount to be determined at trial;
16	f. Any applicable statutory and civil penalties;
17	g. An award of costs and attorneys' fees, as allowed by law;
18	h. An order requiring Defendants to pay both pre- and post-judgment interest
19	on any amounts awarded.
20	i. Leave to amend this Complaint to conform to the evidence produced at
21	trial; and
22	j. Such other or further relief as the Court may deem appropriate, just, and
23	equitable under the circumstances.
24	IX. <u>DEMAND FOR JURY TRIAL</u>
25	Pursuant to Federal Rule of Civil Procedure 38(b), Plaintiffs demand a trial by jury of any
26	and all issues in this action triable by a jury.
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